Constant-Dollar Estimates of New Plant and Equipment Expenditures in the United States, 1947–80

THIS article presents quarterly and annual constant-dollar estimates for 1947-80 of new plant and equipment (P&E) expenditures that are companions to the current-dollar estimates compiled from the BEA P&E survey. These estimates substantially extend and improve the information available for analysis of capital expenditures. They, like the current-dollar estimates, cover nonfarm business and are on a company basis.1 The constant-dollar estimates are

1. P&E expenditure data are collected from companies, not from establishments. Buch company may have one or more establishments, with operations to one or more industries, A single industry classification is assigned to each company based on its primary activity—on the activity with the largest volume of sales or payrells-and its total expanditure is included in that industry. obtained by dividing the current-dollar estimates by specially constructed implicit price deflators for industries.

This article has two sections and a technical note. The next section presents the constant-dollar estimates. The second section briefly describes the methodology used to derive the implicit price deflators and the constant-dollar estimates, and introduces the deflators

Nors,-George B. Green, Chief of the Business Outlook Division, played an important role in the formulation of methodology and procedures for this project and provided general supervision. During the early stages of this project, significant contributions were made by : Ronald G. Allan, Morie P. Hertzberg, Virginia K. Olin, Benjamin Patton, Ariene K. Shapiro, and Beatrice N. Vaccaro. and the fixed-weighted price indexes for each industry. The technical note presents the detailed methodology used to derive the estimates.

Constant-Dollar Estimates of P&E Expenditures

Annual and quarterly constantdollar (real) estimates of P&E expenditures are shown in table 8. Constantdollar estimates for equipment and for plant are shown in tables 9 and 10, respectively. The annual estimates are for 1947-80; the quarterly estimates for total P&E expenditures are for 1947-80, and those for equipment and for plant are for 1972-80.

Total P&E expenditures

Chart 6 shows the current- and constant-dollar estimates of total nonfarm business P&E expenditures.2 From 1947 to 1980, real expenditures grew at an average annual rate of 3.8 percent, compared with 8.2 percent for current-dollar expenditures. The rate of increase in real terms was 2.5 percent in 1947-59, 5.3 percent in 1959-72, and 3.6 percent in 1972-80, compared with 6.2 percent, 7.9 percent, and 11.9 percent, respectively, for current-dollar expenditures.

Table 1 shows the average annual rates of growth by industry for total P&E expenditures for 1947-80, 1947-72, and 1972-80. There were significant differences in the rates of increase among industries. From 1947 to 1980, spending grew faster in nonmanufacturing (4.1 percent) than in manufacturing (8.5 percent). In 1947-72, nonmanufactur-

Table 1.—Average Annual Rates of Increase for Plant and Equipment Expenditures by Company-Based Industry, Coustant 1972 Bullars Percenti

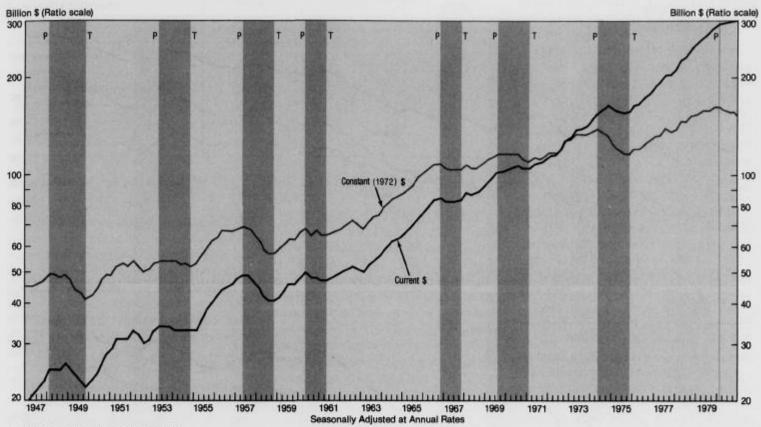
	1947-80	1047-72	1972-90
Total gasfarra business	3.8	3, 9	5, €
Manfetering	1.1	24	L. \$
Dorable goods Primery holds 1 Blast furnaces Nonferrous metals Fabricated metals Stetrical matchinery Machinery sumpt electric Transportation equipment 1 Motor vehicles Aircraft Store, day and glass Other durables 1	14 42 42 68 68 68 68 88 88 88 88 88	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	7.32 0.02 0.22 1.40 9.11 10.22 23.9 6.1
Noniterable geeds. Pood and beverage. Textiles. Paper (Namicals. Petroleum. Robber. Other nemdurables.	1,0 4,5 1,7 1,7	1.6214821	4,6 3,1 -2,8 (3,2 6,9 3,1 -1,2
Numeroularitoring Milding Public utilities Public utilities Trade and services Wholesale and retail trade Phisnes, becurace, and real estat Phisnes, becurace, and real estat Communications and prokaginnal services Communications and other Communications and other Communications and other	8 8 4 4 7 3 3 4 4 8 9 5 9 4 4 8 9 5 9 5 9 5 9 5 9 5 9 5 9 5 9 5 9 5 9	4304 4314 4317 446	1.9 7.4 -1.1 2.1 1.3 4.3 2.1 4.3 -1.3

Includes industries not abown separately.
Consists of kupber, formiture, instruments, and miscellaneous.
Consists of appeared, tobacco, leather, and printing-publishing.
Consists of construction; seelal services and memberably argunizations; and forestry, function, and agricultural services.

^{2.} Unless otherwise noted, all references to PAB expenditure estimates in this article are to estimater in constant (1972) dollars, all quarterly date are seasonally adjusted at annual rates, and all percentages are average annual rates of change.

CHART 6

Expenditures for New Plant and Equipment by U.S. Nonfarm Business



U.S. Department of Commerce, Bureau of Economic Analysis

ing grew faster (4.8 percent) than did manufacturing (2.4 percent), but in 1972-80 manufacturing grew much faster (6.9 percent) than did nonmanufacturing (1.9 percent).

Manufacturing .- For 1947-80, aircraft showed the fastest average annual growth in P&E spending (12 percent), followed by electrical machinery (7 percent) and nonelectrical machinery (5 percent). The growth of aircraft industry expenditures was marked by a series of sudden increases and decreases in response to military and commercial demands for new aircraft. The first major boom occurred in early 1951 in response to demand related to the Korean War. Large increases in 1955, 1956, 1962, 1968, and 1978 occurred in response to commercial demand and, in 1965 and 1966, in response to military demand. In the past 3 years, the industry registered a dramatic increase in P&E spending. This increase—over 200 percent from the fourth quarter of 1977 to the first quarter of 1980-reflected steady growth in demand for more efficient commercial aircraft by major airlines, commuter planes, and private company aircraft. The only manufacturing industry that registered a decline in spending in 1947–80 was textiles, where spending declined an average of 1 percent per year.

For 1972-80, the fastest growth among manufacturing industries was in aircraft (24 percent), followed by paper (12 percent). Nonelectrical machinery, chemicals, and electrical machinery each grew at a 9-percent rate. The growth rate for aircraft reflected a trough in spending during 1972 and the large spurt during 1977-80. The fast increase by paper occurred primarily in 1972-74 and 1979-80. Textiles and rubber were the only industries with spending declines in 1972-80. Both textiles and rubber curtailed spending during the 1974-75 recession. For textiles, spending fell by 29 percent from 1974 to 1975, but increased at a 5-percent rate from 1975 to 1980.

Nonmanufacturing. — The industry groups with the fastest growth in P&E spending in 1947-80 were finance-insurance-real estate and communications (6 percent), and public utilities (5 percent). Transportation had the slowest growth (1 percent). In all nonmanufacturing industry groups except mining, growth rates were slower in 1972-80 than in 1947-80. The slowing was particularly marked in services, which grew at less than a 1-percent rate in 1972-80 compared with 5.5 percent in 1947-72, and in "other" (construction, social services and membership organizations, and forestry, fisheries, and agricultural services), which fell at a rate of 3 percent, compared with an increase of over 4 percent in 1947-72. P&E spending in mining increased in 1972-80 at a rate of 8 percent, double the rate in 1947-80, mainly reflecting the desire of companies for capacity to respond to demand for domestically produced energy.

Expenditures for New Plant and for New Equipment by U.S. Nonfarm Business

CHART 7

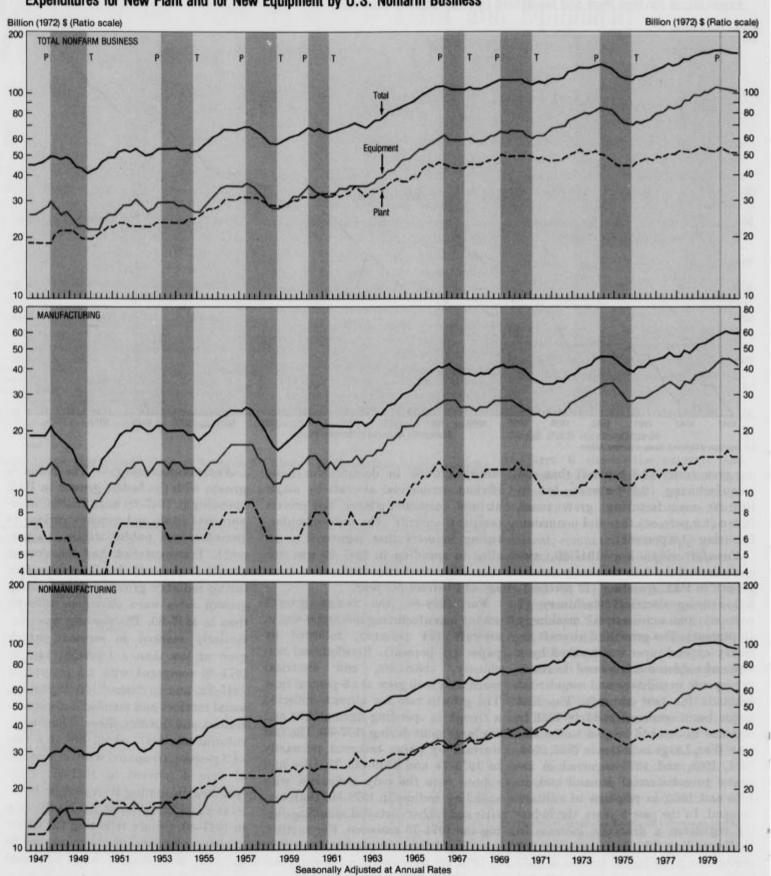


Table 2.—Average Annual Rates of Increase for Plant and for Equipment Expenditures by Company-Based Industry, Constant 1972 Dollars

	[P4	rount	_			
	194	7-64	394	7-72	1.07	3-60
	Plant	Kompment	Plant	Equipment	Plant	Equipment
Total aculatio business	2 ,2	4.3	4,5	4,9	0.0	6,1
Manufacturing	2.5 3.5 1.7	3.3 4.6 8.2	6 2.8 1.8	2,8 3.9 1.7	5.4 8.8 2.8	7.5 4.8 8.2
Neumannfacturing Mining Transportation Proble utilities Trade and services Communications and other	1.5 3.5 4.2 1.6	4.5 3.7 .8 4.8 6.3 5.5	4.0 5.3 1 5.1 5.0 6.0	4,8 1.0 1.8 7.0 0.2 6.1	7.5 7.4 3.8 1.7 -2.5 -1.1	\$.7 8.2 -2.3 3 5.8 2.7

Expenditures for plant and for equipment

Table 2 shows average annual rates of increase for plant and for equipment expenditures for major industry groups. Chart 7 shows P&E, equipment, and plant expenditures for total nonfarm business, manufacturing, and nonmanufacturing. Total nonfarm business expenditures for equipment grew considerably faster than those for plant, especially in recent years. For 1947-80, the growth rate for equipment spending was 4.2 compared with 3.2 percent for plant spending. From 1972-80, equipment spending increased at a rate of 5.1 percent, compared with only 0.9 percent for plant spending. Faster growth in equipment spending occurred in both manufacturing and nonmanufacturing. The large difference in growth rates for recent years may have reflected a response to large differences in price increases for the two components-in 1972-80 the implicit price deflator for plant rose at a rate of 10.5 percent compared with a rate of 6.7 percent for equipment.³

In 1972-80, the faster growth of equipment in manufacturing was traceable to nondurable goods manufacturing. In nonmanufacturing, plant spending declined. Substantial declines occurred in trade and services and in the communication and other group. These declines were partly offset by the strong growth in mining and in transportation. The latter reflected large outlays for the construction of the Alaskan pipeline.

Cyclical behavior

During the period 1947 to 1980, total P&E; equipment, and plant expenditures for major industry groups showed significant cyclical patterns (chart 7). The shaded areas in each chart depict periods between successive peaks (P) and troughs (T)—"contractions"—for

real total nonfarm P&E expenditures.* The percentage changes for five major industry groups in each of the seven cycles that occurred during this period are shown in table 3 for contractions and for expansions.*

There were three large contractions in spending for total nonfarm business: from 1957:2-1958:4, spending fell 16½ percent; from 1948:1-1948:4, it fell 16 percent; and from 1974:2-1975:4, it fell 15 percent. The other four contractions were relatively mild, averaging 4 percent.

The expansion with the largest growth in total nonfarm business spending was 1961:2-1966:4 (the longest of the expansions), when spending increased 67 percent. Other expansions with large growth were 1975:4-1980:1, 39 percent; 1949:4-1958:2, 31 percent; and 1954:4-1957:2, 32 percent.

P&E spending in manufacturing generally registered much larger spending declines in contractions and substantially larger increases in expansions than did nonmanufacturing spending. In contractions, the average decrease for manufacturing was almost five times as large as that for nonmanufacturing; in expansions, the average increase for manufacturing was almost twice that for nonmanufacturing. Within manufacturing, durable goods industries were somewhat more cycli-

Table 3.—Percent Change in Expenditures for Equipment and for Plant, Contractions and Expansions, 1947-80

				Contro	ctions						• • • • • • • • • • • • • • • • • • • •	Ехроп	ustonu			_
	他:J- 40:[V	68:LI- 68:JV	57:11- 58:111	00:tt- 61:11	66:TV- 67:TT	69:[[[- 71:[75:1V	Aver-	28:11 40:1V-	54:1V- 57:11	58:TTI- 60:L1	61;II- 08:IV	67:III- 00:III	77:- 74:11	75:TV- 80:I	ATES.
Total nonform business Equipment	37, 20	-3.49 -0.77 4.49	- 16.40 -28.57 -8.87	-4.70 -10.08 2.41	-4.44 -4.69 -3.62	-6.12 -7.01 -1.89	25, 29 17, 09 11, 21	-9,89 -14.84 -2.54	30.71 30.22 31.27	31,61 34,29 38,66	16, 37 28, 67 8, 61	66, 19 94, 80 30, 53	12,49 10,47 15,23	34.45 41.85 3.38	\$6,82 50.08 50.30	31, 12 42,85 19,54
Manufacturing, Equipment, Flant		-8.65 -9.14 -7.72	-30.35 -37.66 -31.70	-6.91 -11.23 2.17	-7.36 -8.07 -3.54	-14.60 -16.65 -16.00	-16, 69 -16, 76 -10, 78	-18,32 -20,00 -14,53	68,72 05,12 00,97	35.07 53,73 57.81	35,84 44,65 26,3)	95. 66 105. 87 78. 16	1, 12 9, 94 9, 89	\$8.34 41.35 2.00	53, 71 50, 76 38, 25	46, 78 51, 79 30, 77
Dumble goods Equipment Plant	-28.09 -28.41	-8.77 -4.37 -21.10	-40.85 -40.59 -41.85	-12.88 -13.89 -8.98	-5.00 -3.00 -8.00	-22,03 -23,43 -13,11	-22, 62 -24, 45 -15, 95	-21.55 -21.00 -22.70	102.30 98.01 147.00	40, 64 37, 55 74, 90	13.95 56.83 32.45	128.88 127.13 133.76	0.87 6.80 6.84	37.08 48.32 7.47	70.94 88.35 70.42	03.24 62.01 88.67
Nondurable goods Equipment. Plant	-30.62	-8.60 -13.70 .38	-21.75 -34.87 -37.48	-1.16 -7.92 0.35	-9.39 -12.69 -1.67	-8.90 -7,48 -3,72	-0.01 -0.40 -7.03	-14,76 -18,10 -9,08	48.68 47.10 87.74	25, 92 29, 12 18, 14	24.64 32.27 95.76	66, 37 83, 65 42, 76	13, 77 14, 54 12, 44	IN 76 33.04 03	87.04 52.50 8.00	38, 71 41, 84 20, 90
Mentanumibeturing, Equipment		-id 11 1, 13	-11.88 -11.84 .91	-3.59 -10.50 2.48	-2.49 -2.50 -2.73	7.55 7.50	-15, 39 -16, 33 -11, 38	-3.73 -9.76 2.47	16.50 22.65 9.43	29, 63 34, 78 23, 61	t8, 70 2, 80	53. L7 60. 03 29. 97	14, 69 10, 89 17, 31	22,68 (2,17 3,20	31, 22 44, 17 16, 10	25, 18 37.06 14.78

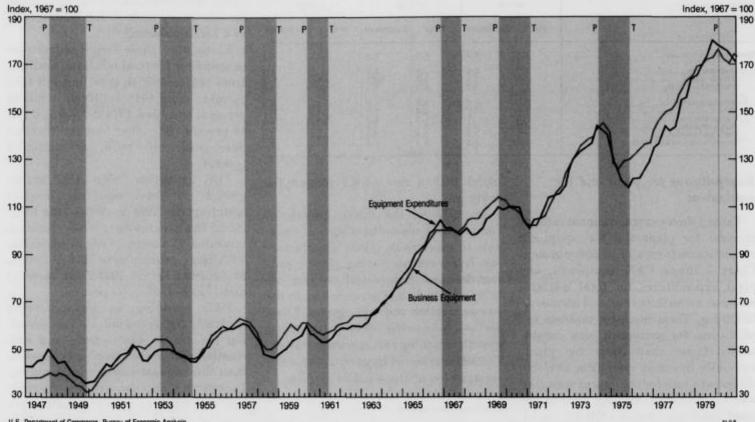
^{3.} Strictly speaking, fixed-weighted price lodexes should have been used to support this restoning. The rates of growth of these indexes were similar to the rates for the deflators (see table 5).

^{4.} These peaks and troughs do not coincide with the business cycle peaks and troughs designated by the National Bureau of Responde Research.

^{5.} The percentage changes in table 3, and those discussed in this part, are not at average samual rates (see feetnote 2), but are changes over the calirs period indicated.

CHART 8

Business Equipment (Index of Industrial Production) and Constant-Dollar Equipment Expenditures (P&E Survey)



U.S. Department of Commerce, Bureau of Economic Analysis

cally sensitive than nondurable goods industries, especially in the 1960:2–1961:2, 1969:3–1971:1, and 1974:2–1975:4 contractions, and the 1949:4–1953:2, 1961:2–1966:4, and 1975:4–1980:1 expansions.

Table 3 also shows that equipment spending was more cyclically sensitive than plant spending. In fact, plant expenditures increased in the contractions of 1948:1-1949:4, 1953:2-1954:4, and 1960:2-1961:2.

The timing of troughs for manufacturing and nonmanufacturing spending was slightly different. The troughs in manufacturing usually lagged those for total nonfarm business by one to two quarters, and nonmanufacturing spending turned up one or two quarters before the troughs for total nonfarm business. The peak quarters of manufacturing and nonmanufacturing were more coincident.

Comparison with the FRB series

The constant-dollar estimates of equipment expenditures can be compared with the business equipment component of the Index of Industrial Production, prepared by the Federal Reserve Board (FRB). The FRB series differs in several ways from the BEA series; data are not available to make satisfactory adjustments for these differences.*

Chart 8 shows the two series indexed to 1967. The two series moved together for most of the 1947–80 period—the correlation coefficient of the quarterly levels of the index numbers is 0.995, and the correlation of the percent changes is 0.668. The FRB series grew at a somewhat faster rate over 1947–80—4.7 percent, compared to 4.2 percent for the BEA series.

In the last five expansions the FRB series was consistently above the BEA

series. In part, this reflected the fact that the troughs in the FRB series generally preceded the troughs in the BEA series by one or two quarters. (The timing differences at peaks were less uniform.) The FBR series is based mainly on production measures, rather than on expenditures. Because production normally precedes expenditures, this difference may have accounted for the fact that the troughs in the FRB series generally preceded those in the BEA series.

The BEA series showed a much steeper decline in the 1974–75 contraction and faster growth in the recent expansion than did the FRB series. The FRB series peaked in the first quarter of 1980 and fell rapidly in the next two quarters before turning up in the fourth quarter of 1980. The BEA series peaked in the fourth quarter of 1979, and then fell more gently than did the FRB series.

Industry Price Measures

This section is divided into five parts. The first part summarizes the method-

^{6.} The major differences between the FRB series and the BEA series are; (1) The FRB series is based mainly on production data; the BEA series measures expenditures. (2) The FRB series includes government, exports, and agriculture; the BEA series excludes these items (although it includes imports). (3) The FRB series is compiled from establishment data; the BEA series is compiled from company data.

ology used to derive the specially constructed implicit price deflators and the constant-dollar estimates presented above. The second and third parts present the implicit price deflators for expenditures by establishment-based industry, and for P&E expenditures by company-based industry. The fourth and fifth parts compare the implicit price deflators with fixed-weighted price indexes and with annual price data collected from respondents to the P&E survey.

Summary of methodology

The procedure used to prepare quarterly implicit price deflators and the constant-dollar estimates is carried out separately for plant expenditures and for equipment expenditures. The basic inputs are national income and product account (NIPA) estimates for purchases of structures and producers' durable equipment by type in current and constant dollars (published as NIPA tables 5.4-5.7) adjusted, where possible, to conform to P&E survey definitions.

In the first of three steps, specially prepared capital flow matrixes are used to transform the NIPA estimates into current- and constant-dollar expenditures by establishment-based industry. These capital flow matrixes show the amounts and types of capital goods used for each of 76 establishment-based industries. The step-one calculations yield implicit price deflutors for establishment-based industries that are formed by dividing current-dollar capital expenditures by constant-dollar capital expenditures for each establishment industry.

The second step uses a capital expenditures matrix to transform the capital expenditures by establishment-based industry into capital expenditures by company-based industry. The capital expenditures matrix shows the amount of capital expenditures in each company-based industry distributed by the industry classification of its establishments. Company-based industry deflators are formed by dividing currentdollar capital expenditures by constantdollar capital expenditures for each industry. The derived company-based industry deflators allow for the different compositions of capital goods expenditures among industries. In step three, the company-based industry deflators for plant and for equipment are subjected to a constraint and then applied to the current-dollar expenditures from the P&E survey to form the final constant-dollar estimates. The constraint insures that the weighted sum of deflators for the P&E survey

Table 4.—Average Annual Rates of Increase for Implicit Price Deflators and Fixed-Weighted Price Indexes for Expenditures by Establishment-Based Industry

(Pe	rcent	_				
	194	7-80	1973)-80	_	-
	Implicit	Fixed- weighted price index	Implicit price deflator	Fixed- weighted price index	Rp	nk'
	deflator	index	deflator	land ex	<u> </u> 1947-90	1979-80
Crude petrolaum and natural gos	5.0 6.1	6.6 6.2	16.5 10.7	15. 2 10. 8	ı 1	
Sings also militar success admine and characters and feet.	•	4.9	10.0	18.0	3	3
River solvers infining. Breed and marrow fabries, years, and thread mile and mis- collarious textile goods. Rubber and miscollarious phastic products.	6.0 4.8	4.8	8.1 8.5	0.7 0.3	\$	8 12
Iron and ferrottley ores mining and nonferrous metal ores	١.,	4.9	9.8		_	، ا
Lumber and wood products including wooden containers Paperboard containers and boxes	4.D	1 10	[[]	9.4 8.0	7	0 21
Electric, gas, water, and cardiary carvices	اهقا	4.9 6.0 6.0	0,1 8,3 9,2 8,8	9.6 9.2	1 0 10	2 <u>1</u> 7 10
Construction. Matalworlding machinery and equipment	4.8	4.0	8.3 6.2	0.7 6.8	11 12 13 14	24 24
Construction Matehworlding machinery and equipment Heating, plumbing, and siructural metal graducts Screw machine products and stampings Other familiare and fixtures	48 47 47 47	4.0 4.5 4.5	\$2 \$3 \$3	8.8 8.8 8.6	13 14 15	\$ 24 19 20 18
Coheren manufactures	Ι,	4.2	يه ا	8.7	15	l
Household farniture Primary nonfarrous metals manufacturing Metal containers and other fabricated motal products Glass and glass products	4.5	41	8.5 8.2 8.2 7.5	0.0 8.6 8.7 8.5	17 19 19 20	18 14 23 27
		4.5	1	1	ı	
Missellaneous machinery, except destrical	4.6	41	7.6 8.2 7.7	8.2 9.7 8.3	22	M 20
Ossemi indespriel mechinery and equipment. Stone and ciny products Paper and allied products except containers.	4.0 4.0 4.0	1 4 5 4 3	8.4	8.0 8.8	21 22 23 24 25	#0 29 37 17 31
Bleetric lighting and wiring againment. Miscellaneous fabricated textile products	1	4.6	8.4 7.7	8.0 8.6	20 27	10
Miscellantous manufactoring	4.5	4.0 4.4 4.3 4.3	3.1	9, 2 8, 4	20 27 28 29 30	10 25 31 31 38
Farm and garden machinery	4.5	4.3	7.0 8.7	9. 2	31	11
Chambells, salasted absorbed receivable releasing and estables.	1	4.3	8.0	8.7	39	
tio nest with Food and kindred products Household appliances	15	4.3	8.3 8.2 9.3	8.0 8.7 0.4	33 34 36	32 26 20
v &ucmhn.	1.0	1	•	0.4 8.6	1	
Special industry machinery and equipment	4.8 4.8 4.6	13	8.0	8.8 6.0 7.6	34 37 38	33 16 44 62 35
Printing and publishing Engined and timbinas Service industry machines	1 44	8.0	8.4 7.6 7.7	7.6	39	62
		4	0.8		41	ł I
Optical, ophthelink, and photographic equipment	4.3	4.1	7.8	8.1	48	40
and equipment Cher transportation equipment Leather tauning and finishing footwear, and other leather products.	4.3	•	I .	h .	1,1	
Tatal all ludestries cambined	,				1	
Paints and alited products	. 48		- n.s	7.7	45	ét.
Paints and alited products. Electrical inductrial equipment and apparates and release language according to the control of th	1	4.0		8.1 8.3 7.7	1 47	42 48
Scientific and controlling instruments	. 4.i	3.8	ւի անդ	7.7	40 40	48 54 49
Office, computing, and accounting machines. Radio, television, and communication equipment. Aircraft and paris and ordnames and accessories. Wholesale and retail trade.	1	1 0 9		: 7.7	51 85	13 53
Atternational parts and ordinance and accessories Wholesale and retail trade.	1	3.0	7.1 7.1	7,7 7,2 1 8,2	51 82 52 54 54	35
		1 1	7.1	1 6.9	56 50	i \$7
Comprouniestions Finance, insurance, real coloip and revisi	2.1	2.8	5 54	1 6.7	· 67	[] 50

^{1.} Rank is besed un implicit pries deflutors.

^{7.} For a summary of the differences in definitions between P&E survey expenditure estimates and the NIPA estimates for purchases of structures and producers' datable equipment, see G. R. Green and M. P. Herberg, "Revised Estimates of New Plant and Equipment Expenditures in the United States, 1947-77," Screw or Curanua Byenness 60 (Getober 1980): 38-39.

industries is equal to the deflator for total purchases of equipment and structures obtained from the sums of the adjusted NIPA estimates.

Implicit price deflators for establishment-based industries

Table 4 shows the average annual rates of increase of implicit price deflators for capital expenditures by establishment-based industry. An establishment-based industry that purchases mainly capital goods that show relatively fast price increases over time will, in all likelihood, also show relatively fast increases in its deflators. For example, the establishment-based industry that had the fastest increase in the de-Antor in 1947-80 was crude petroleum and natural gas. The rate of the deflator's increase reflected that industry's purchase of about 34 percent of mining and oilfield machinery in 1972 and of all petroleum and natural gas structures, which both showed relatively fast price increases.

Four of the six industries with the fastest increases in 1947-80 were mining industries. Broad and narrow fabrics. yarn, and thread mills and miscellaneous textile goods had the fastest increase for nonmining industries, followed by the rubber and miscellaneous plastic products and the lumber and wood products including wooden containers industries. The fast increase in the deflator for the broad and narrow fabrics. etc. industry was due to the industry's heavy purchases of special industry machinery, which increased rapidly in price over the 1947-80 period. Large purchases of special industry machinery were a factor for the other two industries also. The rubber and miscellaneous plastic products industry purchased, in addition, a large amount of metalworking machinery, which increased rapidly in price, and the lumber and wood prodnets industry purchased, in addition, a large amount of trucks, which increased rapidly in price.

Similarly, industries that purchased large amounts of office, computing, and accounting machinery, the equipment category with the slowest increase in the deflator over 1947-80, showed relatively slow increases in their deflators. The two major purchasers of this equipment category were the finance-insurancereal estate, and rental industry and the services industry.

Implicit price deflators for companybased industries

The implicit price deflator for P&E expenditures by a company-based industry is in effect a weighted average of the deflators for the establishments owned by the companies in that industry. For example, 70 percent of P&E spending in 1972 by food and beverage companies was by their establishments classified in the food and kindred products industry. Food and beverage companies also owned establishments classified in metal containers and other fabricated metal products. Because the deflators for these establishment-based industries increased more than the everage for all industries combined, the deflators for food and beverage companies also showed an above-average increase.

Table 5 shows average annual rates of increase of implicit price deflators for total P&E expenditures by company-based industry for 1947-80, 1947-72, and 1972-80. The implicit price deflator for total nonfarm business P&E expenditures increased at a 4.2percent rate in 1947-80. Reflecting the generally higher inflation of the seventies, the deflators for total nonfarm business and for every industry increased much faster in 1972-80 than in 1947-72: the rate of increase in the deflator for total nonfarm business in 1972-80 was 8.1 percent, compared with 3.0 percent in 1947-72. The deflator for manufacturing increased somewhat faster than that for nonmanufacturing in both periods.

Within manufacturing, the deflator for nondurable goods increased faster than that for durable goods, especially in 1972-80, reflecting mainly a fast in-

Table 5.—Average Annual Rates of Increase for Implicit Price Deflators and for Fixed-Weighted Price Indexes for Plant and Equipment Expenditures by Company-Based

. IPe	rcentj					
	104	7-80	195	7-72	197	2-80
	Implicit price deflator	Fixed- weighted price index	Implicit price deflator	Pixed- weighted price index	Implicit price doflator	Piacd- weighted price index
Talai Nonfarta Business	4, 2	4,2	3.0	2.6	8.1	B. 7
Manufacturing	4,5	64	4,3	2.9	5,5	9.3
Durable goods. Primary metals. Blast forasces Nonferrous metals. Pabricated metals. Electrical metals. Aircrait. Stone. clay and gloss. Other durables. Poed including beverage. Pasties. Fuper Chemicals. Petroleum. Bubber Bubber Other sondurables.	400	***************************************	1993500364144 222448886 19944488864888 59948664	***************************************	7.8.8.9.10.5.3.5.10.1 0.7.4.0.3.3.7.1.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8	\$ 08198209000
Monmanufacturing Mining Transportation Public utilities Trade and services Wholesale and retail Finance, insurance, and resi estate Fersonsi, husings and protestional services Communication and other Communication	********	***************************************	ne de	***************************************	7.2 4 0 2 2 1 2 4 0 2 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8	8.2 1 4 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Includes industries not shown separately.
 Consists of lumber, furniture, instruments, and reiscollarecus.
 Consists of separet, tobseco, leacher, and printing-publishing.
 Consists of contrigated, social services and membership organizations; and forestry, fisheries, and agricultural services.

Table 6.—Average Annual Rates of Increase for Implicit Price Deflators for Plant and for Equipment Expenditures by Company-Based Industry

	[Pa	rerat)		_		
<u> </u>	194	7-80	194	7-72	197.	2-60
	Plent	Bquipment	Plant	Equipment	Plant	Equipment
Total nonferror betaleness	K.O	8.8	1,2	2.8	10.5	6,7
Manufacturing Durable goods Nondurable goods	U. [4.0 5.8	4.8	4 (2) 3)	2.3 3.4 3.3	1.8 0.1 2.3	7.4 7.9 7.8
Nanassefaritting Lithing Transportation Public utilities Trade and services Communication and other	5.9 4.9 5.4 4.7 4.6	4.8 4.8 3.5 2.8	14 21 24 3.0 21 3.3	2.4 2.9 2.0 2.0 2.0 2.0 2.0	10.1 16.2 9.0 10.3 9.6 8.9	6.2 9.5 8.5 7.6 8.5 8.4

crease in the deflator for petroleum companies. This fast increase in turn reflected these companies' ownership of establishments in the crude petroleum and natural gas industry whose defiator, as seen in table 4, increased very fast; of the equipment expenditures in 1972 made by this establishment-based industry, 68 percent were accounted for by establishments owned by petroleum companies. The manufacturing industries with the slowest deflator increases in 1947-80 were aircraft and electrical machinery. Aircraft companies own many establishments classified in aircraft and parts, and the deflator for

Table 7.—Comparison of Percent Changes in Implicit Price Deflators for Plant and Equipment Expenditures and in Capital Goods Prices Reported in the P&E Survey

	Correla- tion co- efficient
Petel senfarm business.	0,871
Mantifecturing	, 176
Darable goods. Blast furnaces. Non letrous metals. Electrical machinery. Mechinery except electric. Mater yalkels. Aircraft. Stone, elsy, and glass. Other dorables!	. 947 . 900 . 534 . 900 . 540 . 753
Ford including beverings. Food including beverings. Tentiles. Paper. Ohernicals Patroleum. Rubber. Other nondorables 1.	\$.826 .601 .816 .794 .240
Nonmanofacturing Mining Transportation Public utilities Trade and services Communication	.01 .83 .82 .90

Consists of fabricated metals, hymbor, furniture, instruments, and miscollyneous.
 Consists of apparel, tobacco, leather, and printingpublishing.
 Canadas other nonmanufacturing.

this establishment-based industry increased relatively slowly in 1947-80. (The deflator for aircraft and parts establishments increased slowly because a large portion of this industry's capital expenditures is office, computing, and accounting machinery.) The deflator for electrical machinery companies increased relatively slowly because they own many establishments in four establishment-based industries for which the deflators increased relatively slowly-communications; radio, television, and communication equipment; electronic components and accessories; and electrical industrial equipment and apparatus and miscellaneous electrical equipment.

For nonmanufacturing, the mining industry deflator showed the fastest increase for all periods shown in table 5. The increase in that company-based industry's deflator reflected the relatively fast increase in the deflators for mining-related establishment-based industries.⁸ The deflator for transportation companies increased rapidly in 1947-80 re-

flecting the rapid increase, especially in 1972-80, in the deflator for transportation establishments. This increase in turn reflected increases in prices for railroad equipment and railroad structures and for aircraft. The deflator for public utilities increased rapidly, reflecting the fast increase in the deflator for electric, gas, water, and sanitary services. The deflator for other nonmanufacturing also increased rapidly, mainly due to the increase in the deflator for the construction industry component.

Rates of increase of deflators for plant expenditures and for equipment expenditures for major industry groups are shown in table 6. The deflators for plant expenditures increased faster than for equipment expenditures, especially for 1972-80. Mining and nondurable goods manufacturing showed the largest differences between the rates of increase in the deflator for plant and that for equipment. The large differences in mining reflected mainly a fast increase in the price of petroleum structures (mostly oil drilling related).

Fixed-weighted price indexes

The implicit price deflators discussed above reflect both changes in prices for capital goods and shifts in the composition of expenditures for these goods. Fixed-weighted price indexes reflect changes in prices for a fixed "market basket" of capital goods. In constructing the fixed-weighted price indexes for each industry, all factors that could change the composition of capital goods are held at their 1972 values. The factors held constant are: the constant-dollar amount of each type of capital good, the two transformation matrixes,

The series presented in tables 8-10 plus historical series for both implicit price defiators and for fixed-weighted price indexes for establishment-based industries and for company-based industries (broken down into total, equipment, and plant) are available from BEA in computer printout form. The estimates for total P&B expenditures are available quarterly and annually from 1947; the estimates for equipment and plant expenditures separately are available annually from 1947 on, and quarterly from 1972 on. The cost of the printout is \$20. For further information, write to P&B Survey Statistics, Business Outlook Division (BE-52), Bureau of Economic Analysis, U.S. Department of Commerce, Washington, D.C. 20280, or telephone (202) 523-0701.

^{3.} These industries are from and ferrually ores mining and nonferrous metal ores mining; cost mining; crode petroleum and natural gas; and atom; clay mining, quarry mining, and chamicals and fortilizer mineral mining.

the industry ratios of equipment to structures, and the industry weights for various industry groupings (e.g., durable goods manufacturing).

In 1972-80, the implicit price deflators increased at slower rates than the corresponding fixed-weighted price indexes for most establishment-based industries (table 4). This difference reflected a shift in mix away from capital goods that were relatively more expensive to those that were relatively less expensive. The notable exception to this pattern was for the industry with the fastest implicit price deflator increasecrude petroleum and natural gas. This industry's expenditures were dominated by the relatively more expensive petroleum structures and the increasing proportion of investment accounted for by plant in this industry.

Table 8.—New Plant and Equipment Expenditures by U.S. Nonfarm Business;

																(BII	Dona of
Line		1947	1848	ihas	74.50	1851	1962	1953	W54	1965	3956	1967	IASS	1959	1960	LING L	1962
1	Total souterm business	45.76	40.97	41, 12	45.43	61.45	FI. 67	53, 16	63,2£	87.46	pl. 51	47,44	69.25	61,34	H, W	15,85	79. 65
2	Manufecturing	19.48	18.60	14, 67	14.34	18.95	20, 27	20, 48	19.67	LU. 10	24.64	24,12	18, 36	M.62	22.19	22, 50	2L, 😭
3	Durable goods	7. 86 1. 78	7, 28 1, 98	5.18 1.43	6,94 1,33	7.00 7.00 7.00	8.73 1.38	9.52 2.48	9.10 1.64 1.03	0.40 1.67	12.30 2.43 1.65	1.56	1,79 2,29	9.03 1.50	11.14 2.47	0.04 1.77	10.50
6	Nonfrirous metals	. 60 . 41	L LL	1,48 .88 .20 .50	26	1,32 ,54 .71	1.38 1.20 .02	1.61 .74	1.83 1.47	2,00	1.65 .65	2.00	1.48	1, 12 , 48	1.84 .44 .61	2, 20 .40 .64	Lui
7	Führlested werülb	.83	. 68 . 55	50 40 71	.83	.73 85	.63 .68	.74 .84	:77	83 78	66 166	. es	1.49 .74 .80	.84	. £1 L#	3.44	.65 .78 1.81
11 10 8	Flectrical machinery. Machinery, except electrical. Trapaportation equipment !	1.15 1.72	1.05 1.67	1, 21		1 15 1 23	1.14 2.60 2.16	.74 .74 1.29 2.49	1.13 3.17	1.26 2.82 2.38	1,60 2,54 2,16	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.01	48 86 133 230 145	1.50 2.50 1.50).44 2.86	L 62 2.80
12	Motor vehicles	1.62	1.47	1.86	1.42	1.84	.20	2. 18 . 25	2.67	,37	3, 16 .05 1, 25	+198	1, 48 .41 .70	.43	,49	1.89 ,43 ,94	5.88 .85
14	Aireraft. Stone, clay, and glass. Other durables 3	.00 .73 .61	. 64 . 8L	.16 .36 .54	.65 .71	76 88	.64 .78	2.18 .25 .68 .81	. 24 . 73 . 86	1,02	1.25 1.47	L 13	.79 :89	.96 1,06	L 27	.94 1,81	1.88 1.88 1.85 1.85
녆	Nandurable goods	11.76	11.49	8.92	8.10	10.14	19.64	10.96	14.57	10.50	12.22 1.71	19,64 1,73	0.54 1.53	9,80 1,86	Ļ,	11.14	13,28
10	Tarther	3.13	2.21 1.25	1.82	1.61 .62 .64	1.73 -87 -76	1.67	1. 49 .65 .60	1.65).55 .51	. 50 L 23	.47	. 10	. 43 . 89	1,53	2.02 .46	1, 94 , 55
膽	Paper Chemicals	. 85 2.37	3,90	1.29	1.44	7.14	7.83 7.33 4.35	2.23	L 64	1.62	2.19 3.00	1.17 2.45	. EL 1. EM 2. EL	1.62 3.73	1.05 2.17	_ Z.U	,85 2,15
20 21 21 22	Petralenm Bubber Other noodurables	3.72 .45	.31 .31	3,43 22	2.08 -27 -84	2.42 .32 .64	39	4 53 42 78	44	.84 1.69 4.74 .89 .85	. 54 . 62	£.88 .48 .16	. 20	.38 .90	2.96 .47 LUL	4.16 -54 -98	4.28 ,51 ,96
23	Neuronalization	1.00 26,34	.81 20,31	.65 25,85	31,29	.00 12,62	3LO	13.47	#.H	17.5%	4L78	42.18	49.40	42.70	44,51	44.76	48.56
24	Mining.	1.52	1.87	1.71	1.58	1.80	284	2.0	2,07	2.07	24	2.40	1.10	•		1.76	1.69
25	Triotsportstion	4.74	5. te	4. at	4.16	5 .11	4.93	4.71	1.77	3.99	4.47	4.02 8.40	8, 18 7, 66	1.69 4.14 7.11	1, 73 4, 16 7, 63	0.85	4.据
20	Public atalias	3.73	8.61	6.06	6.88	8.60	7.06	7. 65	7. 2L	6.93	7, 26	19.07	20.04	31.59	21,74	22,41	25.0L
27	Trade and services. Wholesale and relail trade	11.56 8.05 2.48	11,93	12.38 3,98 4.16 4.19	14.32 4.72	13.80 4.57	12.29	14.49 4.61	14.76 4.84	17.58 5.45	(A. 62 (A. 15	5.05	8.00	6.52 0.00	5.58	5,53	\$.0g
20 30	Pisance, instrance, and real extate. Personal business, and profes- sional services	4.03	8.88 6.12		を軸	4, 14 6, 10	4.00 8.00	1.48 5.40	4.24 6.00	6.88	7, [J] 1, 51	T, 44. 1	8.07 6.98	9.09 8.98	9.54 1,88	8.30	KLOL LSS
31 32 33	Communication and other	4, 78 2, 62 2, 16	5.75 3.19 2.58	4.84 2.85 2.49	4. 10 1. 98 2. 78	5.03 2.12 2,90	547 547 547	5,87 2,70 2,67	5,73 2.76 2.97	0.09 1.21 1.78	7.79 4.08 3.7t	8. 20 4. 43 3. 60	8.08 4.11 3.94	8.04 4.12 8.91	8.86 4.81 4.06	9, 14 4,90 4,24	10.12 6.56 4.34
Line			10	N7			38	18			10	.] 		50	
	_	1	II .	1111	rv	Ŧ	11	пі	IV	t	ц	ın	IV	1	11	щ	IV.
اد	Total nonfurm huniques	44.10	(£16	(A. ID	44,12	44,61	c0, 21	45,00	Ø. 12	46,86	44,39	42,15	41,46	42,27	63,73	47.41	4.55
2	Manufacturing.	10. 67	19.00	16.67	19, 1a	20,45	JE, 23	17. 72	17.29	14, 27	H4, 59	快斯	12,56	12,81	12, 84	24.64	16.43
3 4 5	Primary metals 1	6. OL 1. 89	8.04 3.96 1.01	7.40 1.73	7.10 1.67	7.68 1.94	7.30 2.42	7.25 2.02	8.08 1.74	6.65 1.70	8.07 1.48	1.84 1.30	4.74 1.23	111 120	5.67 1.20	0.08 L-24	7.04 L 49
5	Plast furnices	. 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	1.0	.95	1.06 .39	111 25 26	. 10 . 10	1,28 .40	1.06 .34	L 11 29	.29	. åL	.ກ .31	1.26 .73 .31	.74 .22	0.357840348710610870	7.04 1.69 .89 .61 .57 1.63 1.43
9	Febricaled motals	+114	88	1.21 1.53 1.43 1.43	.89 .60 .60	.69	.01	. 68 . 58	.85 .15	.29 .55 .54	.42 .37	. 50 . 85	.54 .37	.88 .88 .22 .23 .23 .24	.01 .30 .50 1.51	-03 -48	:81
10 LĻ	Machinery, except electrical Transportation equipment	1.89 3.00	1,23 1,74	1.65	1.00 1.60 1.43 .06	1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Let	1,07. 1,67	.95 1.55	123	1.19	1.17	1.17	1.38	1.51	1.00	1,5
12 18	Motor vehicles	1.77	1,45 .08 .70	1.33	1.00	1.76	1.00	1,37	1.36	.11	1.02 1.02	1.00	1.03	.05	1.39	Ligi.	1,14
14	Sione, clay, and glass Other durables?	.70 .54	:86	ŭ: iii	:76	. 69 . 69 . 79	. 01	.51 .84	:50 :70	. 42 . 65	. 36 . 88	.122	.34 .46	. 42 .86	:67	:70	. 68
쌾	Nondurable goods	11,65	11.30 2.15	18.00 2.20 1.22 .85 2.29	12 60 2 33 1 10	13.00 2.23 1.19	11.60 22.80 1.80 1.90 3.90 9.90	10.47 2.26	18.84 2.15	10.09 2.14	9.32 1.78	8, 32 1, 76	7.83	7.70	7.78	8.05	1.40 1.40
16 17	Textiles	2, 24 1, 00 1, 03	1,12	1.22	l iğ		1.80	1.28	1.25	Lin	+96	.79	7.83 1.60 .70 .80 1.19 2.07	.74	.73	8.08 16.1 18. 18.	7,00
19	Chemicals	3,63	2.48 8.38	2.29	2, LD 4, 15	2.18	1.97	1.60	1. M	1.35 1.74	-96 -147 -147	1.28	1.19	เมื	1.32	1,50 3,00	1.73
18 19 20 21 22	Robber Other nondurables	. 50 L 02	.4B 1.08	1.66	1.00	2.15 3.27 3.37	,32 et	3. 48 -25 -73	3.84 .21	. 24 .74	. 23 . 65	. 79 . 56 1. 28 3. 28 . 29 . 45	.18	7.70 L 45 .00 1.31 2.94	1.52 .73 .01 1.32 2.87 .53	128	1,80 ,08 ,70 1,73 3,05 ,30
23	Nonmerwischung	26.68	25, 55	24,62	27.69	38.12	80.24	34, 25	34,84	***	30.44	29.60	33.92	29.47	M. #7	12,23	\$2.50 \$2.50
24	Miniog	1.13	1.38	1.65	L.M	1.53	2,18	1.71	2.13	2.16	L 74	1.57	6.89	1.40	1.47	1.68	1.07
	•	4.27	4.76	4.62	8.0	5.30	6.02	5.10	6.34	4.84	4.38	T.94	3.06	8,79	4.08	4.62	4.34
25	Transportation								0.01	હ.લા		0.60	6.03				7.09
25	Public utilities	1.49	2.54	1.65	6.08	4.99	6.54	5.64			0.71		i -: -:	0.36	D.14	0.67	l
1	·		2.54 11.74 5.29 2.80 4.85	2.65 LL 18 4.92 2.29 2.98	6.08 10,64 1,63 2,44 3.87	11.38 4.50 2.81 4.04	11.07 430 438 408	12.00	12.56 4.58 1.79 4.50	12 20 1 20 1 20 1 20 1 27	12.26 4.27 4.27	12.33 4.65 4.10 4.11	12.47	13.30 4.30 4.31 4.50	1.06 4.07 4.44 4.36	0.67 16.77 4.74 4.73 6.30	**************************************

The implicit price deflators for all company-based industries (except blast furnaces and mining) increased at a slower rate in 1972-80 than did the corresponding fixed-weighted price indexes (table 5). For company-based industries this reflected both; (1) the fact

that for establishment-based industries the implicit price deflators generally increased at lower rates than the corresponding fixed-weighted indexes, and (2) changes in the composition of establishments owned by the companybased industries. The effects of these

two factors may be in the same or opposite directions for individual industries.

Comparison with price changes reported by survey respondents

Since 1971, a question in the special annual survey, which is conducted each (text continued on p. 36)

Annually, 1947-80, and Quarterly, Seasonally Adjusted at Annual Rates, 1947-80

1972 doll	(era)																							
1047	П	#4	1985	1866	106	7 1	988	1909	1970	1971	. ,	972	1978	1974	.	975	1976	1107	л	1978	1979	<u> </u>	1980	Line
72.1	£ 82	,68	92,22 	165,83	£94, 2	7 10	L, #7	цен	Į\$6,27	124	0 LI	1.99	F38. 16	135,	17 1	13, 16	224, 11	134	1.00	145, 89	167,	28	188,83	Ī
22, 14	1	- 1	FA, 19	39,82	81.7	. 1 .	4.A	44,55	44,00	34.7	1 -	1,28	40.49	45,		4.41	47.44		L.49	45. EU	56,	- 1	64.60	2
11.23 2.00 1.10	8 12 8 12	22 95 96 75	17.85 9.84 2.00	23.66 8.92 2.20	21.5 4.1 2.2		1.06 1.09	27.50 1.78 2.10	21.34 3.51 1.76	17.3 2.8 1.3		1.12 2.43 1.06	21.94 2.87 3.19	않	00 84 84	20.27 4.55	90.03 4.10 2.16	[]		25.56 3.54 1.54	29. 3.	79 88	81,78 8,94 1,60	1 4
6		75	1.33	Ĺ. 29 L. 44	1 1.5	<u> </u>	1.81 1.00	1. 21 1. 81	î.28 1.81	1 1.0	9 3	.97	1.28 1.74 5.88	l i	78	1.63	90.63 4.10 2.16 1.60		L 26 L 7L	î.29 1.69		\$\$!!	1.57 1.59	6
1 45 1 50 1 0		09 61 85 99	2.81 4.21	3, LE 3, 60 5, 24	3.1	ė į		1.04 1.04	8.81 4.08	1.3 1.0 1.2 3.1 8.2 3.6	<u> </u>	1.42 2.80 3.21	5.58 5.47 5.47	811184681	盤	20, 27 4, 38 4, 28 1, 53 1, 50 2, 60 4, 57 1, 80 4, 57 1, 80	2.70 4.06 4.68			4.71 7.41		22	6.45 9.59	0
11.20 X X X X X X X X X X X X X X X X X X X		16 85	17.88 2.00 1.11 2.24 3.88 1.16 1.16	3,220 1,221 1,3,600 3,600 1,1,400 1,1,400 2,37	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	2 3	1.00 1.31 1.00 1.73 1.30 1.44 1.00 1.15	22.50 2.78 2.10 1.31 2.65 4.00 8.33 1.26 2.85	1.76 1.83 1.81 4.04 4.07 8.25 1.14 2.56	2.4		4.40 3.00 -88	4.71	i.	15 12	2.37 1.80	2. 61		L 44 L 60 L 26 L 7 L 7 L 7 L 7 L 7 L 7 L 19 L 19 L 19 L 19 L 19 L 19 L 19 L 19	35. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	20:51.1.1.4.5.5.4.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	71. 95	1.69 5.60 5.60 5.60 5.60 6.60 6.76 7.77	4 5 6 7 8 D I I I I I I I I I I I I I I I I I I
	- 1	- 1			1							-58 1.88 2.64	1.64 1.00	L.	**	1.25 2.19	1.24 1.32 2.22							l .
11.00 L M .00	72	76 11	15,85 2,42 LON L,40 2,68	18.12 5.07 1.26 1.07 4.00 6.00 1.01	17.9 2.4 3.6 3.6 4.0 4.0	6 1 8	7. 10 2.60 2.77	18.49 8.19 1.60 8.01 8.01 1.01	18.64 8.59 .85 1.88 8.60 8.60	17. 4 3. 4 .0 3.3 8. 8 8. 6 9. 0	5 11 5	7. 16 1. 27 1. 06 1. 48 1. 37 1. 76 1. (18	35.74 3.47 1.00 1.00	31. 8.	70 95	20. 83 3. 0s	21.66 8.47 9.24 5.77 6.77 1.71	1 7	1,65 1,50 1,94 2,44 5,50 7,23 1,13 1,13	23.0t	25. 2 · 2 · 2 · 7.1.2.	7L 80	28, 32 3, 62 , 85 3, 64	16 18 17 18 19 29 21 22
. D4	1 1	.78 .20 .74	L 40 3. 68	107	1	(Š 1		1.62 8.40).58 8.66	1.8 8.8	8 3	4	1.40	2. 8.	96 68 57	. or 2.25 3.16	2. 21 5. 74	; ;	2 44	2 60 6 27	•	18 09	3.64	Į įį́
2. 28 4. 37 . 51 1. 06] 1	.91 .61 .21	6.34 .76 1.21	6,64	#.C		L 50 L 30 L 05 L 12 L 55	6.01 1.22	5,63 1,00 2,08	%	<u> </u>	L 70 L 03	4.40 1.48 2.44	2 6 1 2	썙	2.25 3.16 0.62 1.60	4.70	}	7. 20 L 12 L 92	2 500 6 97 7. 07 1 22 2 21	[;	74 25	9. 97 9. 96 . 93 3. 36	20 21
48.17	Ι.		44.65	66.01	64.4		, 12	71, pi	75,27	17,7		4.65	94.47	88.		78,45	60,71		, ee	17.50	102.		36.43	23
1.60	o] a.	.77	1.50	1.81	L.7	ւ դ	L 72	空 数字	2.20	2.7	• •	2.87	2. 12	1	70	€ 18	4.60	، ،	L29	5.14	5.	14	J. 26	24
4.28	1	.70	B. 92	7.95	7.7	. 1	r. 98	8.00	7.50	4.0		1.73	7.14	7.1	- 1	6.49	6.16	1	1.27	6.52		8 1	6.13	25
7.12 25.67	Γ	77	8.55 29.67	10,07 21,01	29.1	. 1 .	171 177	18.60 22.52	14.82 32.41	14.2		L 25	17.14	16.		14.2H 88.31	14.64 27.44		1.00 ·	17. 85 40. 24	18. 40.		17.47 42.18	25
6.44 9.74 10.48	7.	47 .96 .26	8.45 8.98 12.20	6.67 1.68	8.5 8.1	6 3	1 25 1 25 1 07	22.52 8.59 10.48 13.45	32, 41 9, 49 9, 56 18, 65	9.6 9.6 11.6		1.65 1.62 1.65	49, 50 12, 50 13, 50	化 に 14. 16.	90 15	88, 31 9, 82 13, 56 12, 06	37. 60 10. 45 12. 61 14. 40		.66 .70 .88	46, 27 12, 74 17, 27 16, 21	机体体	# !!	47.16 12.11 12.01 14.18	27 26 29 30
			- 1	12.65	12.4	1	Į.						16.00	l		- 1		1	×-00	10.51	14-	"		"
IC 41 5.74 4.66	ļ 11.	74 50 16	13.06 7.45 8.65	14.12 E.48 6.72	14.4 8.6 5.8	7 14	L 94 3.80 3.64	17.00 10.20 6.60	18.84 11.76 7.07	10. 4 11. 6	7 19	1.06 1.25 1.73	20.39 13.08 7.31	20. 11. 7.	72	17.28 11.10 6.00	17, 45 11, 10 6, 20	1 1	3.40 3.25 3.15	22, 00 15, 32 6, 58	22. id. i.	70 78	22, 42 17, 11 5, 31	37 32 33
	18	<u> </u>	*/ 	<u> </u>	119	<u> </u>	- -	(10	<u>' </u>	1			1	<u></u>	- · · · <u> </u>		60.		T	(4)			
1	II	DK .	īv	ı ı	11	uı	īv		п	trt	īv		<u> </u>	111	Iv		<u>п</u>	 m	[V	ļ	ı.	τιι	יזן	Line
\dashv	1		<u>' </u>	<u> </u>			<u>r</u>	 	1				12. E2	j		<u> </u> 	<u> </u>	BA.22	<u>!</u>	<u> </u>	1	1	<u> </u>	<u> </u>
2.09 16.29	53, 80 15, 84	13. LG 14, M	24,17	54, 14 39, 17	\$2.40 31,47	10, 13 10, 68	51, 12 39.97	20,44	64.32 34.82	\$3.99 30,11	54.14 24.84	50,51 50,51	19,81	53, 11 89, 34	18.01	18, 24	27, 10 27, 23	24,45	6], 17 21. LB	\$4,38 22,86	24,34	94, 12 25, 37	67.22 25.48	1 2
7. 63 L 78 - 86	8.53 2.26 1.16	9.55	9.67	19.13 3.30 1.98	9.88 3.67 2.46		9.49 3.35 2.31		9.00 2.00 1.71	9.27	9.55	0.54	1.77	8.90 1.49	8. 74 1. 30	8.50 1.48	8,95 L30 L00	P. 94	10.42 1.88	LL 29	12.12	12.75 2.35 1.63	13, 14 2, 09 1, 89	2
79	1.16	1.46	1.71	108	2.46	9.42 3.30 2.06 1.04 .66	2.31 .68	1.91	.791	î și	1.28 .65	1.2i .84	1.04	98 38	.M	1.48 .97 .32	1.00 .31	1.11	[23 .43	L 30	12 12 2.28 1.60 66	1.53	1.89 .85	3
.79	;#	.10	.e	<u>;</u> ;	.68 .60	.86 .66	- 60 - 65	.74 .78		. 76 84	:71	.80 .84	.71 .前 1 12	177	.75	;;;	.78 .78	.82 .81	.66 .62	1.02	1.03 1.03 1.83 3.81 3.17	1.2	1,13	8
1.91 1.70	1.29	2.63 1.97	福	. 276 230	2.64	1.VS 2.45 2.21	2.28 2.09	236	1 2 2 4 1 0 3	2 2	2.94 2.78	1.20 2.92	1.65	2 10 2 90	2.98 2.61	2 m	2.66	237	2.61 2.61	3.40 8.13	3.81 3.17	3.24	3.88 3.11	10 11
1.94 1.70 22 67	.51 .74 .87 1.07 2.29 1.89 .76	***************************************	ないし、・・・ しょし・・・・ かいかい かいかい はんのかい はんのかい はんしょう いっぱん いっぱん いっぱん いっぱん いっぱん いっぱん いっぱん いっぱん	.87 .64 .72 1.16 . 2.70 2.50 .41 .76	1.14 2.50 2.00 .81 .60	1.06 1.45 2.21 .61 .73	. 66 . 66 . 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	9.68 3.94 3.94 1.20 2.20 2.20 3.87 3.87 3.87 3.87 3.87	100 105 105 105 105 105 105 105 105 105	9.20 1.70 1.22 1.70 1.22 1.70 1.22 1.70 1.70 1.70 1.70 1.70 1.70 1.70 1.70	9.66 2.28 1.28 -75 -91 -2.29 -2.21 -66 -2.21 -66 -2.21 -66 -2.21 -66 -2.21 -66 -2.21 -66 -2.21 -66 -2.21 -66 -2.21 -66 -2.21 -	0.54 1.97 1.21 .84 .80 .84 1.16 8.20 2.92 .71 .86	\$1.040 1.140 1.124	80.48.88.77.11.11.98.38.88.	5.1 1.2 1.2 1.2 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	. 32 . 170 . 122 . 2 20 . 20 . 20 . 20 . 30	.31 .75 1.31 2.55 2.23 .89 1.07	9.44 1.11 1.41 1.82 1.32 1.32 1.32 1.05	10.42 1.38 1.22 1.30 1.30 2.43 1.33 1.36 1.36	1L 29 2.09 1.52 .00 1.52 3.00 8.47 1.23	1 02 1 58 1 58	.68 .90 1.18 1.65 3.24 .60 1.60	.85 1,12 1,67 3,88 3,11 .65 1,42 1,10	3 4 5 6 7 8 9 10 11 12 18
															L							l		١
號	1,81 98 1,81	1. 他	1.60	1.61	1.69	1.83 .04	1.01	1.70 -01	1.85	1.02	1.65	176 147	1.61 -48	1.65	첉	1.54	操	1,68 -50	. AT	1.64	1.66 ,61 1.25	1.80	1.72	1 15
9.46 L 66 .74 J.60 8.14 .30	1,86 ,77 2,17 3,51 3,51	8.55	1.27	2.34 4.19	1.97	1.53 .04 .03 2.38 4.00 .41	30. 48 1. 61 3. 33 4. 34 3. 34	10.67 1.70 1.70 1.77 4.44 1.81	11.24 1.85 .06 2.42 4.61 .47	1.62 1.62 .54 .73 2.83 4.51 .42	10.79 1.65 .81 .74 2.22 4.65 .41	10.17 1.16 1.16 1.20 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.1	10.56 1.61 -48 -78 1.85 4.63 -88	45 # 25 # 25 # 25 # 25 # 25 # 25 # 25 #	10.554777 CO 44.55	1.55 2.55 2.55 2.55 2.55 2.55 2.55 2.55	1.66 1.67 1.67 1.67 1.67 1.67 1.67	10,61 1,63 .60 .64 1,58 4,59 .88	11, 19 L 67 . 60 . 60 L 78 L 62 . 62	11.69 1.64 .60 1.11 1.07 & 05 .48 .85	13.80 1.66 1.25 2.18 6.14 .60	13.80 1.80 1.30 1.30 4.61 1.01	12.12.13.13.13.13.13.13.13.13.13.13.13.13.13.	16 16 17 18 19 20 21
.36 .71	:55	.87	10,50 1,60 .01 .73 2,27 4,08 .44 .45	10.63 1.61 74 .67 2.34 4.19 .41	11.18 1.69 1.67 1.67 1.67 1.67	:41 :68	, M	:4L	:#	:42	:約	. 86	;as	. 32 . 87	.60	.70	.87 .83	:88	.42 .97	.4B .85	.60 .88	iål	.54	25 21
32,31	22,36	#2.BL	32.05	33. 3 0	11.4E	30.45	3L, 10	22,79	33.41		43.M	13, M	24,71	33. TB	13.12	34,72	34, 39	22,78	40, 27	41.0	42,33	đ.	43,84	23
1.77	1.07 4,25	1.98 5.24	L97 &17	2.35 5.39	21L 401	1.98 4.48	1.75	2.0L 4.72	1.84	2.11 4.80	2,10 4,88	1.90 4.30	2,17 3.78	2.13 3.68	1.08 3.47	t.83 3,50	2.01 3.90	2, (d 4,02	2.30 4.48	2.45	2.54 4.45	2.45 4.80	2.48 4.43	24 25
0.43	6.68	0.76	6.53	7.50	6.88	1.76 E.76	7.18	7.7£	7.95	7.98	7.77	7.67	7.82	7.40	6.76	4,72	6.87	7. 18	5.00	6.92	7.29	7.16	1.47	26
년 <u>4</u> 2							l		13.53	12.33		40	14.60 4.80	13. 2L	15, 31 A 08	16. 38 5. 23	16.00 4.11 4.88	18. II 600 6. IB	19, 12 A 47	19.82	20, 28 5, 70	19. 60 8. 98	(0.80 à 71	
4.42 4.00 4.67 5.00	14.00 4.00 4.00 6.20	14.44 4.44 4.12 5.31	17.09 4.50 3.69 5.28	12.91 4.26 3.40 5.20	12.12 2.98 2.18 5.02	2 m 2 m 12 m	12. [2 4.0] 3.32 4.6]	12.53 4.54 3.23 8.10	13.5) 4.68 3.44 5.38	12 TO 4 TO 2 49 4.51	1.84 1.86 1.86 5.64	140	14.60 4.80 4.81 5.50	13.21 3.09 4.20 8.80	15.31 5.08 4.58 5.55	10. 18 5, 21 5, 07 5, 91	£ 88 £ 13	0 IB	19, 12 5, 87 6, 67 6, 67	19.82 0.84 0.88 0.60	20.28 5.70 7.16 0.42	19.60 8.98 7.22 0.47	(0.80 2.71 7.25 6.84	27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20
1,96 1,98 2,92	4.86 2.02 2.83	5,04 2,15 73,88	1.20 2.84 2.95	8.43 2.40 3.01	5.28 2.24 3.94	5,24 9,54 9,74	5.13 2.54 2.54	8.43 2.62 2.81	5.45 2.75 2.71	5.20 2.72 2.58	5.31 2.73 2.58	1.48 2.74 2.74	1	2.70 2.77 2.00	6,01 2,75 8,26	1.40 2.93 3.48	1.68 1.00 1.69	7. 88 8. 84 4.04	7.50 3.57 3.93	7.66 3.77 2.68	7.77 4.04 3.73	7.77 4.19 2.65	7. 96 4.23 2. 64	31 32 33
4,000																								

Table 3.—New Plant and Equipment Expenditures by U.S. Nonfarm Business; (Billions of

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Line		<u> </u>	LØ	17			18	58			18	5 9			16	*			1(61	
		ı	п	ın	ΙΛ	ĭ	и.	ш	īv	I	п	ш	IV	1	п	ın	IV	1	11	ш	ίλ
	Total realizes business	\$7. \$3	68, 67	48, 25	US. 62	69.58	69.60	83.83	57.52	69.68	667.63	44, 86	63. 17	et. 37	68.04	15.45	64.64	45.11	64.88	66.97	67.45
2	Manufacturing		25, 48	24. F	23.44	21.89	M. (#	(7.07	16,88	27.44	35.11	18.94		31.45	22,73	22.38	3Z, 27	28.30		34,78	21, 43
8	Durable goods. Primary metals ! Elect forneces. Nonferrous metals. Pabricated metals. Electrical metals. Electrical metals. Electrical metals. Machinery, except electrical. Machinery, except electrical.	12.34 8.16	12.62 3.67	12.36 3.85 2.13	11.55 3.57 2.07 1.24	14.60 14.60 1.60	1,92 1,35	8.08 2.06	7.67	1.65	8.60 1.80 1.18	1.20		10.92 2.39 1.74	1,15 2,67 1,62	11.21 2.53 1.63 63	\$1,08 2.83 1.73	10.23 2.05 1.44	1,78	9.84 1.82 1.05	10.00 1.00 1.20 1.22 1.44 1.84 1.41
Š	Nonferrous morals	1.64	1.00 1.37 1.42	1.41 1.01	121	10 87	1,57 -70 -71	1.85 86.	62	1.06 .80	.69	- 12 12 12 12	77	45	.45	1.5	13	1.42	39	. 69	1.8
á	Electrical machinery.	1.0	1.64	2.01	97		20	1000 C	1.00	1 12	.59 .79 1.29 2.13 1.58	L 61 1.41 2.29 L 70	1.05	117 1.84	1.38 1.03 2.55 1.08	L 37	1. Bi	1.4	1 40	. 63 1. 41	1.2
18 11 12	Transportation equipment Motor vehicles	2,34 3,61	3.14 2.26	L 65 2.00 L 62	1.85 2.85 1.62	L 60 2.56 L 60	\$ 67 1.45	1.42	1.78 1.30	1.12 2.11 1.49	2.13 1.58	2.29 1.70	1.40 2.97 1.74	2.52 1.69	2.56 1.08	1.37 1.52 2.03 2.03	1.51 2.60 1.00	1.65 2.50 5.74	2.35 1.80	2.29	2.4 1.5
18	Ayciait	, 72 L 19	.75 1,21	. 68 L, LL	1.00 2.65	l Loca	1.35 2.45 1.45 2.45 2.45 2.45 2.45 2.45 2.45 2.45 2	38	1. 11 . 52 . 65 1.00 1.78 1. 30 . 37 . 69	84 84	.44 .02 1.04	1.00 1.34	I .439	1.84 2.62 1.64 1.69 1.21	1.16	.407	1, 25 1, 25	.44	.43 .67 L 28	1.76 1.76 1.80	1,1
14	Other durables f	L 0.5	.93	-88		. 94									1.31		1				
16 17 18 19 24 21 22	Nondershie goods. Food including heverage	12.82	12.88 1.72 1.50 1.24 2.45 6.43	¹⁴ 원	12.66 1.76 1.69 2.49 5.06	2. 39 2. 39 2. 42 4. 38 94	9.89 1.49 .80 .81 1.98 2.84 .82	8.22.23.24.24.24.24.24.24.24.24.24.24.24.24.24.	8.74 L 62 .71 1.53 3.55 .89	0,31 1,58 -34 -80	1,61	9.68 1.66	10, 19 1, 73 , 63 1, 60	10, 48 1,74 ,58 1,02 1,99 1,69	11.33 1.85 1.07 2.20 4.14	11, 14, 1, 84 - 50)),)) 보 - 체	10,88 1,93 ,94 ,95 2,03 4,03	11,25 1,85	31.06 2.06 .48 .79 £31	11,2 3,1
損	Tertiles.	1.24 2.31 5.53	1.50	1. 16	1.68		<u>.</u> #	1 .82	778	100	.41 92 1,54	.43 91	1,00	1.02	LOF	1.68	1,05 2,20 4,15	. 3	ļ jā	.78	
25 21	Chamicale Petroleum Buthee	1 1 1 1 1	6.49	2.88 5.59 .44	5.0	1,42	184	3,45	3,55	1,64	3,05 -35 -80	1.00	1.80 3.75 .42	1,69	4, 14	1.66 2.77 3.84 1.05	4 15	1.0	91 2 23 4 21 4 67	4. L5 .48	2.
_	Bubber Other nondurables (19 06	:00	.98	47 89	.94	:84	: Bi		•	.80	. 67	.94		1,08	1.05	.07	. 4E] :77	.00	
23	Nonsequieduring	42.78		43.11	42,01	41.17		#.#	4,17		'		_,-,-	·	45, 25		l		I '		
34 	Mining			2,42	·	2.00	l	LM			1.78	LEZ		1	LES	:	l		1		ı
25 28	Transportation Public withings		·	4.86 4.66	4.41 8.42	3. 93 7. 63	2.98 7.29	2.02 7.75				4.74 6.84		4.42 7.33	4.43		l	i		[
27							10 63	20 18	20.26					1 1					1		
29 29	Trade this corvices	6.38 7.22	19.29 5,20 7.31	4.84 7.48	18.88 4.73 7.74	20,00 6,14 8,29	4.71 B.06	A 10 7.08	5. M	5.30 8.25	21.35 8.44 8.16	22, 32 0, 78 0, 07	1 20	22.00 5.48 0.71	23, 23 4, 73 0, 00	6.44 9.22	5.44 9.00	1 1	£ 41	27.51 5.35 8.44	0.8 0.8
3	Personal, business, and professional serv- less	l'	B. 88	0.59	6.30		0.87	7, 13		ı		1		7.72			l		1		ı
31	Communication and other	2.50	6.43	8.28	B-05	8. <u>15</u>	B. 09	B. 100	7,00	7.78	7,89	0.22	8.55	<u> </u>	8.88	1.92	0,0		8.90	0.20	0.3
품	Communication	2 40 4 49 2 93	1.61 3.92	8.28 4.49 3.60	170	3.77	4, DI 3, Q3	2 B	2.97 4.00	7.78 3.87 3.91	7.89 4.94 3.85	6.22 4.24 3.07	8.35 4.34 3.11	4.05	8.88 4.79 4.09	4.00	4.0	1.15	i ii	1.55 4.53	5.0 4.3
Line			196				100	NO			197	71			190	72			107	3	
		ι	π	m	Ι¥	1	ıt	111	14	I	11	111	17	t	11	rit	īV	1	щ	נננ	IV
1	Total nonCarto business	131.28	111.74	116.57	LIG, BI	185,87	114.86	154, 2 8	H2. 46	116, 60	112, 71	112,48	JH4, L7	L K, 87	TIE, 63	112,20	126, 66	128, či.	133, 34	133.14	H3. 6
2	Magainetaring	<i>2</i> 3. 53	₩. 84	42, 10	41.45	44,43	40,79		37. BL	JJ. PA	34, 33	\$3,84	14,34	33.51	원. 최			39,51			#.4
3	Durable goods	22,19 3,08	22 M 1.88	22, 80 3, 75	표 <u>27</u>	22.49 8.50	약얦	21.12 3.50	19.70 8.40	17, 83 & 13	17.34 2.97	18.70 0.67	17.33 2.50	17.15 2.42 1.06	17. 49 2.33	18, 20 2, 47	10.10 2.19	20.54 2.57	24.88 2.81	22.41 2.99	.# <u>2</u>
5	Plast furnaces	2,300 1,18	2, 14 1, 29	2.08 1.20	1 00	1 590	1.数	1.60 1.26 1.26 1.26	1, 62 1, 39	1.57	2.97 1.27 1.28 1.26 3.00	9. 57 1. 22 06	17.50 2.50 1.54 1.54		2.33 1.06 1.34 2.51 2.06 4.32 3.01	844884489449	1.10		L 217	2.99 1.33 1.39 1.74	1.2 1.5 2.6 2.6 4.1
7	Pabricated metals Electrical machinery	1 2 JU	1.54 3.71	L 49 3.42	1.50	1.88 3.97	1.33 3.90	1.25 3.64	1.25	1.15 3.20	1.26 3.00	1.28 3.16	1.26 3.03	1.20 2.54	1.34 2.51	2.30	1. \$0 3.08	8.19	ļ. 1 # #3	1.74 2.47 2.86	1
LC C	Electrical machinery Machinery , or copt alectrical Transpertation equipment	3.80 5.32 3.22 1.51	3.92 6.28 3.26	4.21 6.74	11.000	4.34 5.38 3.41 1.13	1.28 5.성	1.00 1.00 1.00	444	3.70	3.32 3.48 2.31	1.28 2.25	8 03 9 27 9 28 2 71	1.29 2.64 2.64 4.25 2.67	4.33	1.45	1.50 3.08 3.73 4.00 3.14	3.81 5.00	4.84 6.35 3.60	4,69 1,68	4
[[]全 []	Motor vehicles	1.5	1.02	3.47 1.60	1. [6	1 13	1 65	. 67	1.83 .80		. (14)	. 03	. 1/4	.67	- 174	70	72	3. 85 79 L 49	🙀	.4	-1
ij	Other durables 1	1.23 2.76			1, 52 3, 86				1.00 2.30				2.01 2.37		1.28 2.46				3.07	1,20	3,2
15 10	Nondurable goods Pood including boverage	17.34 2.88 .00 L.01 4.20 6.76	18, 18 2, 97 1, 82 1, 82 3, 25 6, 87	10,20 2,17 1,06	16. LG 3.47	18.03 3.66 2.01 2.08 0.54 1.13	38,74 3,55 ,80	18.00 A 18.00	18.06 2.53	18.19 1.50 1.50 6.00	17.80 3.63 3.88 3.84 3.84	17.08 3.37	37.01 3.33	14, 64 3, 28 1, 14 1, 28 1, 78 1, 78	17. 12 2. 29	34,88 3,30	37, 70 3, 21	16, OL 3, 28	2.26	2.60	3.7
15 10 17 18 19 20 21 22	Paper	, 66	1. 82	1. Då 1, D1	1,01	2, 63	1.08	. 84 L 63	1.77	1.48	.01).38	.04 3, 4 0	1.01 1.30	1,14 1,24	1, 11	1,02	,00 1,57	TS		1.01 2.13 1.19	2.0
19 20	Petroleum	2,20 6,78	3,25 0,87	3,47 6,25	0.16	3.68 0.64	1.08 8.09 8.60	1,60 6,64	3.40 6.01	5. 60 6. 00	3, 88 5, 54	8,81 5,48 79	2,30 4,06	1.77	3,34 4,09	4,05	1.84 1.84	1.58 1.28	4.38	1.38	4.2
21 22	Rubber, Char nondurables 2	1.44	3, 41	1,24	L 15 L 89	2, 13	1,07 1,83	3.00	18.08 2.53 3.64 1.71 3.49 8.64 2.01	2. 13	2.00	1,00	4.04 1.00 4.00 4.00 4.00 4.00 4.00 4.00	.97 2,04	2.10	**************************************	2.50	147	1.45 2.58	1.52 2.30	1.6
23	Nenmanufacturing	7 L. 76	72,48	74,42	74,88	74.44	35, 63	78.45			77.78	18, H	79.83	62.00	82, s \$		29,50		163. LE	91, \$1	49.4
24	Mining	1,01	2.00	2.00	2.10	2,12	2.06	2,23	2.40	2.66	3, 70	2.89	291	2,94	\$.00	2.54	8.00	2.78	2.86	3.33	8.4
26	Transportation			7.73	7.00	7, 48		7.80	7.24	8.02		5. BT	0,52	0.00	7.01	·	0, \$8	8.95	l 1	7. 35	7.1
2 0	Public utilities		18. 66	12.53		13.48		1	14.01	14.88	LE, 25	٠ ا	15.34	I − 1	15,00	·	14.54		łl	17, 24	17.5
27 28 20 30	Tradu and services	31.20 7.00	32. 13 B. 12	38.67 8.68 11.07	82.07 9.48	39. 25 9. 58 9. 50	32.00 0.07 0.40	82.11 0.68 0.36	3L 48	33,14 9,50	34.67	25.00 ● 69	30. DE	37.75 10.21	87.02 10.80	40. 17 11. 10 12. 74	44.69	13.16 12.06	16.67 12.68 14.48	17 13 17 13 14 19	12.4 12.3
20 30	Personal, husiness, and professional	10, 24	ا. ا		1						li	- 1	12.56	- 1	12.04 14.28			l	1	16, 16	l
61	Commutation and other		l 1			13.76 16.14		13.17 19.26	12.04 12.00		14,00 18,05	14.12		14.64			16.59	I			
31 32 33	Communication and other	0.67 6.70	0.77	10.68 0.88	17, 64 10, 76 0, 89	11.00 7.05	12.00 7.20	10, 20 12, 16 7, 11	11.82	12 CH	12.00 6.00	11.54	18,08 13,08 7,08	12.21	11.79	18.78 11.97 8.76	13.01	20.34 12.49 7.72	20,60 12,99 7,68	19.98 13.20 6,00	13.4 7.17
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year in November and December, has asked respondents for their best estimates of changes in the prices paid for capital goods for the current year and for the following year. Table 7 presents the correlation coefficients, by industry, for 1971-80 between the survey estimates of capital goods price changes (in the current year) and the corresponding percent changes in the implicit price deflators for P&E expenditures.

The correlation coefficients are fairly high, especially for rubber, blast furnaces, food including beverage, and paper in manufacturing and for most nonmanufacturing industries. With the exception of 1975, the two series on price changes for each industry moved together. In 1975, most industries reported a decline in the rate of increase of capital goods prices, but the deflator shows an increase. For all years except 1975, for total nonfarm business the price increase for capital goods reported by survey respondents was higher than the increase in the implicit price deflators presented in this article.

Table 9.—New Equipment Expenditures by U.S. Nonfarm Business; Annually,

		-
TRI	m	~

																	TRANS A
Line		U47	(943	1949	1980	1951	1953	1959	3954	1956	1924	1957	1858	1950	1980	29 AL	1962
1	Total nectarra biolisto	26,71	27.98	23, 22	21.14	18.U	28. FL	20. LU	23,56	\$0.15	36.67	35, 90	29.42	90.95	54. 1 3	83. 92	18.83
2	Manufecturing	12,61	12.48	1.45	9.78	22,34	13.23	M. 78	11,29	13.24	14.45	K.29	11.12	пa	14.73	13.66	14, 17
3	Durable goods	5. 45 7. 25	8, 26 7, L2	和 成為	4.51 5.22	5.96 6,34	6.62 E.71	6. 53 6. 55	6.9L	6.97 6.20	R. 61 7. 46	8. 58 7. 8L	6. 16 5.78	6. CH	8.23 6.49	7, 63 4.23	6,00 6,08
.5	Nonmontinciaring	14.10	性作	14,54	AL 15	体的	16.18	16.81	M. 54	N. 92	I9. IZ	M. 41	17.41	16.77	16.40	床無	24.44
4 7 8 8	kining Transportation Public utilities Trade and services Communication and other	1.05	1 40 1 00 1 10 2 05	1.28 2.20 2.11 4.77 2.28	1.11 3.25 2.09 5.49 2.21	1.38 4.06 2.16 5.89 2.47	1.50 3.80 2.53 5.14 2.72	1.48 2.63 2.98 5.64 2.89	1.50 2.50 2.55 5.70 2.50).47 2.97 2.47 0.67 3.40	1.78 1.38 1.68 7.59 2.75	173 2.54 2.54 4.11	1.44 2.47 2.71 6.71 4.08	1.終 3.報 7.19 3.67	1,2t 2,41 2,62 7,48 4,87	1.14 2.46 7.02 4.75	1,98 2,40 2,60 8,84 5,45
Line		k972				1973				1974				1978			
		I	11	ш	IV .	1	п	m	īv	1	π	111	TV	ī	ш	ш	ΙV
1	Total system bestoon	68.49	68.95	69.84	75.50	76,66	79. 19	64.72	88.05	12.64	84.56	85.67	33. 54	70.67	74, 48	72, 17	7 2.43
2	Manufacturing	23,80	34.27	25,00	27.44	29, 14	23. L7	20.27	39.63	12.40	\$3.09	\$8.59	H.G	22.#	20,44	28.89	27. 54
a 4	Durable goods	13.86 10.58	12,50 10,68	14.20 10.80	14,77 LL,67	16,28 11,85	17.17 12.00	17,52 12,54	17, 76 12, 64	18.68 13.34	14*41 16*10	19.07 14.81	18.50 16.60	17.58 14.88	(6.45 14.05	14.85 14.84	18.51
5	Nonemanafuri nelug	44.54	44,69	44.76	4.12	#4.12	4.1	94,24	66,43	\$0.61	62.77	51,88	4,4	u.a	44.44	43, 18	a.10
2 8 9 10	Mining	1.49 6.06 7.30 17.84 11.88	\$3088 ***********************************	1.35 6.20 6.65 19.25 11.66	1個 5.00 7.11 9.44 12.44	1.46 5.70 7.12 21.50 12.85	1.50 8.86 7.00 92.70 12.84	1,75 6.03 7.66 22,89 12,30	1,59 5,54 7,56 22,94 [2,6]	L, 78 5, 54 7, 65 22, 73 12, 89	LEG 6.01 8.87 91.80 13.64	1.97 5.69 7.45 31.11 13.27	2.00 5.51 8.71 21.78 13.24	2.21 5.32 6.07 20.57 12.30	2.29 4.62 6.63 26.60 11.01	214 469 £65 24.49 (LOI	1, 29 4, 13 4, 06 20, 87 10, 24

Table 10.-New Plant Expenditures by U.S. Nonfarm Business; Annually,

									_								
Lm+		3947	1948	1949	1950	195L	1951	1959	1950	IIII	1986	1967	1948	1969	1980	ıint	1982
1,	Total perfarm booksess	18.56	34.01	29,76	21.78	23.45	23.66	23.85	24.61	27,81	\$4,74	ग्र.स	25,98	39.29	\$2.50	31.53	34.23
2	Manufacturing	4.74	4.18	4,4	4.60	6.44	7.14	4,79	6.30	4.01	8.00	8,52	6.43	4,46	7.43	7.44	7.53
3 4	Durable goods	2.21 4.61	1.87 4.31	1.28 3.41	1.43 1,17	2. 81 8. 78	3.21 3.90	2.88 4.LL	2.19 4.19	F 24	3. 31 4,77	3.89 4.83	2.64 2.80	2 13 3.92	2.90 4.50	2.58 4.91	2.19 6.14
5	Noomaniscinding	12,23	14,50	16, 01	17.13	18,83	16.00	17, M	18,28	20, 65	22, 16	21, 37	21,54	24,34	24, 91	25,40	34.69
6 7 8 10	Mining Transportation. Public utilities Trude and pervices. Communication and other.	24	.45 1.10 3.62 5.77 2.70	.48 .64 4.64 7.66 2.67	.91 148 148 148 148	3.03 4.46 8.80 2.55	.64 1.11 4.45 7.17 2.50	1.00 4.00 7.00 2.70	. 67 1,65 8,06 1,13	.60 L 02 4.45 10.04 8.65	.70 1.10 4.63 12.29 4.65	.68 1.08 5.16 12.27 4.18	.56 .58 12.39 3.49	.61 .61 1.69 11.47 1.17	.75 14.75 14.75 14.75	.56 -64 4.65 18.49 4.30	184. 204.
Láne		3972				1975				1974				1975			
		I	II	пі	IV	I	п	ııı	14	1	п	щ	IA	ι	11	m	14
1	Total pauler pulyusiness	0.4	47, 78	48, 58	6L 39	61.76	44.17	52.43	122, 54	63.04	SJ. 28	41.66	48, 19	45,42	45.21	44,88	46.43
2	Manufacturing	10.10	10,44	10,06	9, 91	19.41	M, 97	11.14	13,80	12.67	17.66	12,以	11,80	11,71	· II, 41	11.29	13.24
3	Eurable goods	3.79 6.31	3, 90 6, 45	4,00 6,08	3, 78 6, 92	4, 26 6, 16	4.73 6.25	4.90 6,27	5, 35 6,74	5.44 7.54	8,27 7,28	4, 85 7, 18	4.90 0.90	4.74 0.97	4.84 7.07	4, 26 7, 68	4.44 6.77
5	Nextonnofacturing	38.34	37.29	38,38	4.0	41.74	43,24	4£,28	40.44	#.#	38,72	37.63	M,30	34 ,71	83.86	\$3,59	34,82
7 8 10	Mining Transporacion Public utilities Trade and services Continundration and other	1.45 91 8.80 19.90 7.18	1. 44 1.06 8.90 19.31 4.57	1,18 1,05 9,41 20,89 6,76	1.81 1.13 0.45 22.14 7.25	1.32 1.25 9.73 21.56 7.40	1. 48 1. 95 0. 87 22. 76 7. 88	1. 17 1. 31 1. 70 21,00 7. 68	1,70 1,80 10,10 19,82 7,97	1,64 1,53 20,65 7,80	1,74 1,99 18,74 7,78	1,78 1,37 9,04 (7,60 7,48	1.88 1.67 8.95 17,16 6.77	1.81 1.86 18.08 0.48	1.00 1.74 0.34 15.74 8.00	1.00 1.61 0.39 15.37 6.11	1,62 1,85 0,44 10,13 6,92

^{0.} The responses to this question, with special emphasis on the price estimates for the following year, are ansirted in Frank de Leeuw and Michael J. McKeivey, "Price Expectations by Business Firms," Brackings Papers on Economic Activity, no. 1 (1981), pp. 268-312.

Technical Note

Derivation of Industry Implicit Price Deflators and Constant-Dollar Estimates

The procedure used to derive the implicit price deflators and the constant-dollar estimates has three steps. It may be shown compactly in matrix notation. Let Z_i° be a nxi vector of purchases of equipment (or structures) by type in current dollars for time t, Z_i° be a nxi vector of purchases of equipment (or structures) by type in constant dollars for time t, W_i be a form matrix of weighting

factors for time t, \mathbf{Y}_t^a a 66xl vector of establishment-based industry corrent-dollar expenditures for time t, and \mathbf{Y}_t^a a 56xl vector of establishment-based industry constant-dollar expenditures for time t. The value of n is 28 for equipment and 18 for structures. In a tep one, the establishment-based industry deflators are found by,

(1) $DB_t = Y_t^o/Y_t^b = W_tZ_t^o/W_tZ_t^b$, t=1947:1, 1980:4

where / denotes a vector operation that divides two similar-size vectors (here, 56x) vectors) element-by-element. DE, is a 56xl vector of establishment-based industry deflators.

Similarly, in step two, company-based industry deflators are found by,

(2) $DI_t = X_t Y_t^* / X_t Y_t^*$, t=1947:1, 1980:4

where DI, is a 88×1 vector of company-based industry defletors for time t and X, is a 88×56 matrix of weighting factors for time t. The company-based industry defletors may be found directly, without calculating the estab-

1947-40, and Quarterly, Seasonally Adjusted at Annual Rates, 1972-40

772 dollar														<u></u> -						,
1989	1964	JAAS	19	§4 11	16 7 3	D48	1969	1970	1973	1079	1973	1874	197	8 <u>19</u>	776 3	1977	1978	1979	1960	Line
26,4t	44, 76	61,5	•	9.30 4	10.05	53, 86	64,77	45.32	43, 29	79, 70	79.44	B4.4	74.	15 71	K, 10 4	84.25	55.02	144.47	145.61	Ι-
16,64	89, 61		`\	- 1		25. 10	27,78	25, 67	29.73	26.17	29.50	1 -	- I			22, 17	\$4.75	40,38	44,78	'
8.87 6.67	16. (a 7. 94	12.7 9.9	8 E	1.70 1 1.48 1	0.00 10.99	後数	18. 6 0 11.1 9	16.73 10.94	12.96 10.76	14.25 18.92	17.19 10.39	12.1	ks 16. Ks 18.	83 L	A.80 8.97	18.08 18.13	19.33 15.42	92,28 18,00	24, 20 20, 57	
22,47	25,72	\$40.0	• #	a. 16 1	13, 00	33,99	34.98	25,64	39.64	45.63	49,84	EL,	12 U,	.# 4	5.27 ·	50.EQ	58.89	43, 19	10.85	.
1. 14 3. 47 2. 62 9. 52 1. 72	L 15 4.77 2.88 10.68 6.24	1,1 5,2 2,9 12,8 7,7	7 2 5 5 3	4.87 2.46 8.78 :	1.05 6.67 4.25 12.65 8.60	.04 4.14 13.11 8.92	1.10 6.76 4.88 14.28 19.06	1.09 6.65 5.56 14.65 11.67	1.40 4.85 6.69 16.76 10.17	1.48 5.67 7.07 19.30 13.00	1.50 5.88 7.06 22.49 12.64	7.0 21.0	12 2 74 4. 13 6. 17 26. 18 11.	49 2	2.94 4.17 5.92 1.85 1.48	2.78 4.69 7.13 23.43 12.49	2, 89 5, 17 7, 61 29, 31 15, 60	2.95 5.41 7.29 21.00 15.67	2, 78 4, 79 4, 96 81, 36 16, 08	;
1976 1977							'	14	78	<u>'</u>	1979				Τ	18	50	Line		
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21,00	29,18	80, OL	21,14	29,16	22,78	34.70	5 2LM	32,11	25,34	34,68	14, NS	-87, 84	25, 25	49,12	45, 44	44,97	1	44.40	S4.37	:
14.15	LA 35	16, 22 32, 83	17. 26 18. 88	17, 87 14, 48	17,52 15,21	18. 81 18. 14	18.37 14.67	17.82 14.29	19.43 16.91	19.60 14.98	28.47 16.48	90, 94 16, 93	21.70 17.89	22, 78 17, 85	23.71 19.73	24L 87 20. 60	24.97 20.65		24.60 20.14	
44,87	64,41	46,38	47, 12	81,23	80,18	52,77	F 62, 13	54.43	57,48	59, 18	61,68	41,54	63, 29	63,54	84.72	62.13	61,4	(LM	58,66	;
22	2.07	248	2.64 4.61	2 60 4 67	2.73 4.67	200	2 49 5 7.02	2.55 6.25 0.01	2.88 4.96	2.96 5.04 7.24	2 24 5 41	3. 18 5. 23 7. 24	2.07 5.29 7.34	2.65 8.49	2.80 3.63 7.24	2.68 4.P4	2.78 4.77	172 179 1.17	2.02	l
2.28 2.71 2.02 21.13	20,90	4.14 6.66 21.71	6. C3 21. 69	21.07	7.13 20.72	2.00 4.00 7.50 23.50	1.02	24.65 14.63	6.90 24.23 14.77	78.06	7.35 34.45	80. SL	7.34 31.04 10.62	7, 80 41, 85 16, 14	7.24 35.65 16.38	2.68 4.94 7.25 30.32 36.04	7.07 30.6	1 20.67	2.00	Ι,
IC DI	IL IA	12.41	12.46	12 n	12.92	12.4	11.87	14.63	14.77	16.44	18.18	18.38	16.52	16.14	16.30	38.14	16.88	15.63	15.20	

1947-80, and Quarterly, Seasonally Adjusted at Annual Rates, 1972-80

18	72 dollare	<u> </u>																			
	1968	1064	1945	IMM	L9	67 1	1968	1900	1970	197L	1972	1972	1074	1975	197	8 1	977	1978	1979	1954	Edne
Γ	34,14	\$7,94	44.71	46,1	4	4.28	84,88	46.27	44,54	49, 20	ss, 23	52,72	\$40,25	45,	51. 47	r, 107	£0, 6 2	践艦	63.81	52, 52	_ ₁
ı	7.44	8.94	10.76	TA.	# 1	2.74	13,25	u,n	11,11	11, N	10, 11	38, 83	12,21	11,	a 12	L48	12,11	18,85	14.98	15,84	2
1	2.42 6.04	8,09 5,86	12	8.6 7.1		5.80 6.98	6.62 8.64	6. 10 7. 11	<u>ā. 68</u> 7. 70	6.89	1.87 6.24	4.76 6.35	5 14 7.15	L &	44 4 96 7	. 78 . 61	5. 20 7. 52	6, 28 7, 59	7.28 7.71	7.59 7.75	3
ŀ	34,70	\$8,44	21.95	31.0	≱ a	1.64	SA 19	36, 16	34,61	38, 16	39. 12	44.61	24,24	34,	11 N	i, 64	37, 72	\$9.11	58.85	37.58	5
	. 10 4.40 18, 18 4.01	, 61 , 93 4.85 J7. 10 5. 61	1.44 6.61 17.32	1.1 0.0 18.1		.68 1.04 7.36 6.45 6.07	.74 1.16 0.66 17.64 6.04	1.24 2.76 18.29	1.17 1.16 8.77 17.78 7.17	1.20 1.20 8.50 10.42 7.50	1,45 1,04 0,18 20,56 6,94	1.51 [.28 9.88 21.21 7.74	L 27 1, 27 9, 21 18, 48 7, 44	15.	42 I J	1.38 1.98 1.04 1.24 1.00	2.56 1.58 9.71 17.57 6.80	2, 28 1, 41 10, 62 18, 02 6, 80	2.19 1.42 10.00 17.60 6.60	2.48 (.49 10.60 10.66 6.84	8 9 10
ŀ		1876 2977					Т	•	978	' 					т'		1960	<u> </u>	 		
H		1977				-l	, 	1	.—				_	┼—	_	1		Line			
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ľ	#6, BI	47.67	41.48	46.31	48.64	59.57	ŅĮ.	ZZ \$1.10	67.57	57,42	52,4T	53, 69	54,43	54.32	82,64	82.76	64. TI	6 52,8	7 51,87	5 2, H 8	Γı
ı	ILIA	12.31	H.M	12.00	11.63	12.80	12.	PL 13.26	N. 95	14.14	13,86	14,25	14,88	15, 14	15,13	и.и	15,2	6 15.1	P 25,45	14,92	3
١	1.23	6.66 7.65	4.09 8.18	6. 01 7. 70	7.4L	5.48 7.47	5. 7.	71 1.00	6. OL 7. 99	6.04 7.26	6.29 7.57	6. 67 7. 62	7, 07 7, 91	7. 25 7, 72	7. 20 7. 89	7.39 7.35	7. B. 7. 3	5 7.8 1 7.8	7,63 7,85		3
Į	55.亩	= .47	35.87	M.fl	37. E2	37. SI	3.	29 47,84	1L0	28'41	38,61	\$9, 31.	39,65	14.T	#8, 4L	38.00	A1.0	•] 37 ,1	å 35,33	57,24	5
	2.(1 1.94 1.82 14.24 5.89	2,30 3,15 8,85 16,41	2.88 1.99 9.14 16.36 6.86	2 51 1 00 6 95 16 95 6 24	2.69 1.63 9.88 16.57	2.62 2.41 9.49 17.87	21 ill 6	55 2.36 42 1.36 93 6.66 90 17.67	L 151	2.83 L.30 10.29 10.76	2.38 1.44 19.37 17.34 7.13	2.05 1.77 (1.02 (7.02 7.20	2, 15 1, 38 10, 90 10, 11	2, 13 1, 44 11, 19 17, 58 6, 98	2,19 11,44 11,74 4,74	2,39 1,42 18,45 17,19	2.2 1.5 16.9 17.8 6.5	5 16.	2.60 1.34 0 30,10 8 14,03 0 6.25	10.85	6 7 6

lishment-based industry deflutors, from the formula.

(8) $DI_t = X_t W_t Z_t^a / X_t W_t Z_t^k$, t=1947:1, 1980:4

which follows from substituting (I) into (2). In step 3, constant-dollar estimates of P&E expenditures are found by applying these deflators to the current-dollar P&E survey expenditures.

Step 1. Establishment-based industry implicit price deflators

The weights (the W. matrix in (1)) used in the first step are derived from the capital flow tables produced by BEA. These tables disaggregate gross private fixed investment to the BEA input-output tables to show the amounts and types of capital goods, classified at the 4-digit Standard Industrial Classification (SIC) level, used by each of 76 establishment-based industries. (Nine of the 85 establishment-based industries in the input-output table do not use capital goods.) The dollar values in the tables reflect purchasers' prices in current dollars.

Capital flow tables are available for three years: 1063, 1967, and 1972. For each of these years, two capital flow matrixes are constructed—an equipment matrix and a structures matrix. The structures matrix is a disaggregation of the new construction I-0 commodity group in the capital flow table. The capital goods entegories for both the equipment and structures capital flow matrixes match the level of detail for types of fixed nonresidential investment published in NIPA tubles 5.4-5.7. The 76 establishment-based using industry categories are combined to form the 50 establishment-based industry entegories used in the second step. The columns of these aggregated capital flow matrixes show the distribution of types of capital goods; the rows show the composition of investment goods used by various industries. The matrixes for 1968 and 1967 are adjusted to 1972 SIC đeđuitione.

The six matrixes (3 years, equipment and structures for each) are normalized by columns, i.e. each element in a column is divided by the sum for that column. The six normalized matrixes show the percentage distribution of capital goods by establishment-imaged using industry.

The percentage distribution of each type of capital good by using industry changes over time. To make estimates of the distribution for each quarter between 1903 and 1967, and between 1967 and 1972, linear interpolation is used. To interpolate between 1963 and 1987, the normalised matrix for 1963 is subtracted from the normalized matrix for 1967, and the resulting "difference matrix" is divided by 13 (the number of quarters between the fourth

quarter of 1963 and the first quarter of 1967). This "increment matrix" is added to the normalized matrix for 1963 to derive the normalized matrix for 1964:1, the increment matrix is added to the normalized matrix for 1964:1 to derive the normalized matrix for 1964:2, etc. The procedure for interpolating between 1967 and 1972 is similar. The normalized matrix for 1963 is used for all quarters before and including 1968:4, and the normalized matrix for 1972 is used for all quarters from 1972:1 forward.

A capital flow matrix for each quarter is derived by multiplying the quarterly adjusted NIPA estimates for individual types of producers' durable equipment (or structures), first in current dollars and then in constant dollars, down the appropriate columns in the appropriate normalized matrix." The rows of each matrix are summed; these sums are the current- and constant-dollar estimates of establishment-based industry purchases of squipment or structures (the Y_is and Y_ik vectors in (1) above).

Implicit price deflators for the 56 establishment-based industries are derived by dividing the current-dollar expenditures by the constant-dollar expenditures for each quarter (separately for structures and for equipment). Deflators for total industry investment (equipment plus structures) on an establishment basis are also derived.

Step 2. Company-based industry implicit price deflators

Step two converts the establishment-based industry expenditures derived in step one to company-based industry expenditures. The basic methodology is the same as for step one, although the construction of the appropriate weighting matrixes is considerably more complex.

The basic data for constructing the capital expenditures matrix $(X_k \ln (2))$ are compiled from data on expenditures cross-classified by establishments and by companies. These data, prepared by the Bureau of the Ceasus, are available only for 1968, 1967, and 1972.

For 1972, the Census Bureau provided a special capital expenditures tabulation that shows purchases of equipment and of structures for company-based industries cross-classified by the establishments that are owned by companies within each company-based category. For 1963 and 1967, however, similar matrixes are not directly available. Instead, capital expenditures matrixes are derived from the employment matrixes published by the Bureau of the Census in its

Enterprise Statistics for 1968 and 1967 (Table 6 in Enterprise Statistics, Vol. 2, for 1968 and Table 2-2 in Enterprise Statistics for 1967). Each employment matrix shows the number of employees for company-based industries cross-classified by establishment-based industries

Both employment matrixes and also the 1972 capital expenditures matrix are complete for manufacturing. However, all three are incomplete for nonmanufacturing, because the Census Bureau data are incomplete for transportation, communications, agriculture, 6-nauce-insurance-real estate, and public utilities.²⁰

A major problem with the two employment matrixes is that many of the published cells contain letters, reflecting ranges of values, rather than actual numbers. This procedure is followed by the Census Bureau to prevent disclosure of confidential information. To deal with this problem, a numeric value for each cell of the matrix that contained a letter is estimated. Each estimate is constrained to be within (or on) the boundary of the range of values associated with each letter, and the matrix is forced to balance, i.e., the row and column totals equal those in the original published employment matrix.

To convert each employment matrix to a capital expenditures matrix, each column (on establishment-based industry) of the employment matrix is multiplied by an appropriate capital expenditures per employee ratio, also published in Exterprise Statistica.²²

The capital expenditures matrixes for each of the three years (1963, 1967, 1972) are aggregated to 38 company-based industries (to match the categories in the P&E survey) and 56 establishment-based industries (to match the 56 establishment-based industry categories in step one). Equipment matrixes and structures matrixes are then derived for 1963 and for 1967 by applying to each column of the appropriate capital expenditures matrix the appropriate ratio of either equipment or structures capital expenditures to total capital expenditures for each establishment-based industry. Matrixes for 1968 and 1967 are adjusted to 1972 SIC definitions.

^{10.} The table for 1972 is described in the July 1980 Strawer.

^{11.} Estimates of purchases of structures by type are available annually from 1948 forward but quarterly only from 1958; i. Quarterly estimates for the earlier period were derived by interpolation. Assume estimates were used as control totals, and the quarterly pattern of total purchases of structures (which is available back to 1946) was used to derive estimates of quarterly purchases of structures.

^{12.} Estimates for these industries were made based on the investment data from the capital flow tables (for 1972) and data on the number of full- and part-time employees from the NIPA's.

Canons Bureau establishment-haped 15. The data used to construct the expitel expenditures per employee ratio differentiates between entablishments classified in the same company-based category and all other establishments. Therefore, each column is actually multiplied by two raties: the "disconal" cell is multiplied by the capital expenditures por employee of establishments clearified in the same company-hated category, and the rest of the cells in the column are multiplied by the ratio for "all other establishments." This assumes that the capital expenditures per enpleves are equal for establishments owned by communica in different industries except those commanies whose industry category is the same as that for the establishment.

^{14.} These capital expenditures data are also published in Enterprise Statistics.

The equipment and structures matrixes are normalized by establishment-based industry. The normalized matrixes for 1963, 1967, and 1972 are linearly interpolated using the same procedure as in stap one. The normalized matrix for 1965 is used for all quarters prior to 1964, and the normalized matrix for 1972 is used for all quarters in 1972 and later years.

The columns of the normalized equipment and structures matrixes are multiplied by the current- and constant-dollar establishment-based industry expenditures derived in step one above, and the rows summed to yield current- and constant-dollar capital expenditures for each company-based industry. Current-dollar company-based capital expenditures are then divided by constant-dollar

company-based capital expenditures to yield implicit price deflators for equipment and for structures.

Step 3: Constant-dollar P&E survey estimates

Breakdowns of total expenditures into those for plant and for equipment have been collected in the P&E survey on an annual basis since 1947 and on a quarterly basis since 1972. Separate quarterly expenditure series for equipment and for plant are calculated for all quarters prior to 1972 by interpolation. Annual estimates for equipment and for plant reported in the P&E survey are used as control totals for each industry; company-based industry expenditures derived in step two are

used as interpolators. The company-based industry deflators from step 2 are constrolned to insure that the weighted sum of the defiators for the P&E survey industries is equal to the deflator for total purchases of equipment and structures obtained from the sum of the adjusted NIPA estimates. Constantdollar expenditures for 88 P&E survey industries are then colculated by dividing the entrent-dollar P&E survey expenditure estimates (for equipment and for plant separately) by the implicit price deflators for company-based industries. Constant-dollar industry estimates of total P&E expenditures are calculated by adding the separate estimates for constant-dollar equipment and plant expenditures.

(continued from p. 25)

tion plan increases this year. The largest planned increase is in mining, 22 percent; mining reported the largest spending increase in nonmanufacturing last year, 18½ percent. "Communication and other" plans a 18½-percent increase; gas utilities, 10 percent; "other transportation," 7½ percent; and trade and services, 6½ percent. Railroads and electric utilities plan smaller increases. Air transportation plans a 10½-percent decline in spending this year.

Spending in nonmanufacturing industries increased 2 percent in the second quarter, to a seasonally adjusted annual rate of \$191.2 billion, following a 3½-percent increase in the first quarter. Large increases in the second quarter in "other transportation," electric utilities, trade, and finance were partly offset by sizable declines in air transportation and real estate. A 1½-percent increase is planned in the third quarter; increases in the finance-insurance-real estate group and "communications and

other" are largely offset by declines in gas utilities and transportation industries. A 5½-percent increase is planned in the fourth quarter; the largest increases are in transportation and gas utilities.

Electric and gas utilities started new investment projects totaling \$13.8 billion in the second quarter, compared with \$10.1 billion in the first quarter. Carryover of utility projects was \$135.6 billion at the end of June, up \$4.8 billion from the end of March.